



CONFIDENCE IN IMPACT ASSESSMENT: POLICIES, PARTNERSHIPS AND PUBLIC INVOLVEMENT



41st Annual Conference of the

International Association for Impact Assessment

4 - 7 May 2022

Vancouver Convention Centre East | Vancouver, Canada

Territories of the xʷməθkʷəy̓əm (Musqueam Indian Band), Skwxú7mesh Úxwumixw (Squamish Nation), and səliłwətał (Tsleil-Waututh Nation)

With limited virtual component

FINAL PROGRAM



Final program sponsored by WSP Canada.



Table of contents| Theme

Table of contents

Welcome	3
Conference overview	4
Daily schedule	6
Technical program overview	8
Virtual experience	10
Plenaries	12
Theme forums	14
Virtual presentations	18
Concurrent sessions	21
Posters	39
Special meetings/networking	40
Award winners	41
Supporter messages	42
Student/Young Professionals agenda	46
Exhibitors	47
Index of presenters	47
General information	49
Maps	50
Committees	51
Sponsors	52

Confidence in Impact Assessment: Policies, Partnerships and Public Involvement

How can impact assessment create confidence for all participants? Clear and transparent policies, strong partnerships, and effective participation and consultation ensure credibility and predictability. When all parties have confidence in the process, impact assessment can support collaboration, improve outcomes, and support sustainable economic development. When process confidence is low, it can create conflict and an overall erosion of trust, leading to uncertain outcomes.

IAIA22 in Vancouver aims to examine the area of confidence in impact assessment through three lenses:

Policies

Strong, consistent, and clear legislation, policies, and Indigenous governance provide certainty and support sustainable development. At its best, impact assessment creates a robust standard that can be supported by all parties, but without transparent processes, uncertainty and conflict can impede sustainable development. For example, impact assessment, when combined with other initiatives such as the United Nations Declaration of the Rights of Indigenous Peoples, can provide a strong basis for Indigenous consultation, decreasing these issues.

Partnerships

Impact assessment is most successful when all parties work together. Meaningful collaboration between government agencies, Indigenous peoples, proponents, practitioners, and communities supports an equitable, engaged and comprehensive process. Such a process can create relationships and build trust, even when interests are not aligned; this supports identifying solutions to complex issues.

Participation

Without collaborative opportunities for those affected by a project to provide meaningful input, participation, and consultation, processes can experience delays, mistrust, and a misunderstanding of potential impacts. Accessible impact assessment ensures Indigenous governments and communities, stakeholders, and the public are able to meaningfully participate. This provides a robust understanding of values, interests, issues, and solutions, which supports better decision making.



Marla Orenstein

President, IAIA

Canada West Foundation, Canada

It is with great excitement that I welcome you back to IAIA's annual conference. After three years, we finally have the chance to see one another in person, to reconnect with our IAIA friends, to enjoy the richness of in-person learning, and to meet new colleagues.

Vancouver is both a stunning and an appropriate setting for this conference. In addition to its ample natural beauty, British Columbia's recent overhaul of its impact assessment legislation makes it a prime location for furthering our understanding of best practice.

Additionally, the partnership of the xʷməθkʷəy̓əm (Musqueam), Skwxú7mesh Úxwumixw (Squamish), and səliłwətał (Tsleil-Waututh) First Nations—our host Nations for this conference—sets an example for meaningful collaboration with Indigenous groups that can deliver value for all.

Putting on a conference is never easy, but this one has required more effort than most. The roller-coaster ride of the pandemic has meant a great deal of additional work behind the scenes in case events caused our plans to change yet again. A special thank you goes to all the IAIA personnel—David, Bridget, Jen, Shelli, Kayla, Jack, Sue, Loreley and Carlos—for their exceptional effort.

I would also particularly like to note the incredible efforts of the Asociación Española de Evaluación de Impacto Ambiental who hosted the cancelled 2020 conference and the virtual 2021 conference, and thank them for their flexibility and hard work.

Welcome back!



The **British Columbia Environmental Assessment Office**, xʷməθkʷəy̓əm (Musqueam Indian Band), Skwxú7mesh Úxwumixw (Squamish Nation), and səliłwətał (Tsleil-Waututh Nation), hosts of the 2022 IAIA conference, are excited to welcome you to exchange ideas, consider new perspectives, and re-connect with friends and colleagues at IAIA22 in Vancouver.

At IAIA22 we will be diving into “confidence in impact assessment.” Confidence is earned through strong foundations in policy, trusted partnerships, and broad participation. Gaining confidence is increasingly challenged by volumes of conflicting information, more diverse and disparate public views, and fast-growing pressures on our natural and human environments. This brings into sharper focus the critical value of trust in impact assessment as we navigate the future. We welcome you to examine these themes through our shared experiences from around the world.

The xʷməθkʷəy̓əm, Skwxú7mesh Úxwumixw, and səliłwətał welcome you to our unceded territories. It is our inherent right and responsibility as stewards of these lands to lead the discussions and provide historical and first-hand accounts of environmental impacts to our respective territories. It is the traditional laws of our people that we have a responsibility to look after our traditional territories. We look to the sea for the resources that we share, and we look to the mountains and to the forests for the sustenance, medicines, game, and wildlife that provide for and nurture our people. We are honoured to share our Indigenous history and knowledge with others and seek paths that support our growth, while protecting our traditional ways and the bounty of nature that nurtures all of us and all living creatures. IAIA22 will provide opportunities to better understand and experience Salish culture and understand why this beautiful environment surrounding us is so important. To ensure that sustainable development occurs in our territory, both Western science and Indigenous knowledge need to work collaboratively. Government-to-government engagement in both the impact assessment process and decision making can foster increased trust and work toward reconciliation efforts.

We look forward to welcoming and hosting our guests on our beautiful lands, to explore and exchange ideas that will serve us collectively.

Conference overview

REGISTRATION DESK HOURS	
Sunday 1 May	15:00-17:00
Monday 2 May	07:45-10:00, 15:00-17:00
Tuesday 3 May	08:30-12:00, 15:00-17:00
Wednesday 4 May	08:00-17:00
Thursday 5 May	08:30-16:00
Friday 6 May	08:30-16:00
Saturday 7 May	08:30-13:30

Program Overview

	Pre-conference Sunday 1 May	Pre-Conference Monday 2 May	Pre-Conference Tuesday 3 May	Conference Day 1 Wednesday 4 May
07:30				
08:00		Registration for training courses and technical visits		Registration
08:30		Technical visits		Students & Young Professionals Workshop
09:00			Registration	Workshop: World Bank
09:30		Training courses	Technical visits	
10:00			Training courses	
10:30				
11:00				
11:30				
12:00				Mentor/Mentee meet & greet
12:30				
13:00				Opening plenary (livestreamed) <i>Sponsored by IAAC</i>
13:30			Exhibits & posters setup	Exhibits & posters
14:00				
14:30				Break
15:00	Registration for training courses and technical visits	Registration for training courses and technical visits	Registration	Concurrent sessions
15:30				
16:00				
16:30				
17:00				Poster session and welcome reception
17:30				
18:00				
18:30				
19:00				
19:30 onward				

Conference overview

On-demand presentations are available in Pathable Wednesday through Saturday!

Conference Day 2 Thursday 5 May			Conference Day 3 Friday 6 May			Conference Day 4 Saturday 7 May			Post-Conference Sunday 8 May						
			Meeting: SaskPower regional evaluation process for their small-modular reactor project <i>Sponsored by Hatch</i>			Virtual coffee break				07:30					
										08:00					
Registration	Theme forum (livestreamed) and concurrent sessions		Exhibits & posters	Theme forum (livestreamed) and concurrent sessions		Registration	Theme forum (livestreamed) and concurrent sessions		Exhibits & posters		08:30				
	Break <i>Sponsored by Global Container Terminals</i>			Break <i>Sponsored by Vancouver Fraser Port Authority</i>			Break				09:00				
	Theme forum (livestreamed) and concurrent sessions			Theme forum (livestreamed) and concurrent sessions			Theme forum (livestreamed) and concurrent sessions				09:30				
	Awards luncheon			Special meeting: IAIA initiative to develop SEA guidelines for renewable energy			Lunch <i>Sponsored by Enbridge</i> and Committee meetings and Virtual coffee break			Lunch and Committee meetings		Technical visit	10:00		
															10:30
															11:00
				Theme forum (livestreamed) and concurrent sessions			Theme forum (livestreamed) and concurrent sessions				11:30				
							12:00								
							12:30								
							13:00								
							13:30								
						Theme forum (livestreamed) and concurrent sessions				14:00					
										14:30					
										15:00					
						Break				15:30					
						Closing plenary (livestreamed)		Exhibits & posters dismantle		16:00					
										16:30					
										17:00					
										17:30					
										18:00					
										18:30					
										19:00					
										19:30 onward					

Daily schedule *Livestreamed/virtual events indicated in blue*

SUNDAY 1 MAY

15:00-17:00 **Registration** (East Exhibition Level Lobby)

MONDAY 2 MAY

07:45-10:00 **Registration** (East Exhibition Level Lobby)

08:15-16:30 **Technical visit*: Britannia Mine Tour**

09:00-15:30 **Technical visit*: Ashlu Creek**

09:00-17:00 **Training courses**

More effective IA (Room 16)
Toward more sustainable oil and gas (Room 14)
How to seamlessly connect EIS & EMS (Room 7)
Biodiversity-friendly infrastructure (Room 19)
Monitoring and auditing based on ESMPs (Room 17)
Cumulative effects assessment (Room 13)
Leadership in EIA (Room 12)

15:00-17:00 **Registration** (East Exhibition Level Lobby)

TUESDAY 3 MAY

08:30-12:00 **Registration** (East Exhibition Level Lobby)

09:00-14:00 **Technical visit*: Burrard Inlet cultural tour**

09:00-17:00 **Training courses**

More effective IA (Room 16)
Toward more sustainable oil and gas (Room 14)
How to seamlessly connect EIS & EMS (Room 7)
Biodiversity-friendly infrastructure (Room 19)
Monitoring and auditing based on ESMPs (Room 17)
Cumulative effects assessment (Room 13)
Leadership in EIA (Room 12)
Human rights in IA (Room 18)
Health in EIA (Room 9)

12:00-17:00 **Technical visit*: Managing impacts to marine mammals**

15:00-17:00 **Registration** (East Exhibition Level Lobby)

*** Technical visit participants: Please meet at East Exhibition Level Lobby (near registration desk) a minimum of 15 minutes prior to departure.**

WEDNESDAY 4 MAY

08:30-12:00 **Students and Young Professionals workshop** (Room 14)

08:00-17:00 **Registration** (East Exhibition Level Lobby)

08:00-13:00 **Exhibit and poster setup** (Exhibit Hall A)

09:00-12:00 **Workshop: World Bank** (Room 13)

Note: No lunch is provided. Numerous cafes and restaurants are available in the VCC neighborhood.

12:15-12:45 **Mentor/Mentee meet and greet** (Room 11)

13:00-14:30 **Opening plenary** (see page 12) (Ballroom BC) *Sponsored by IAAC*

14:30-15:00 **Break** (Exhibit Hall A)

15:00-16:30 **Theme forum and concurrent sessions**

17:00-19:00 **Poster session and welcome reception** (Exhibit Hall A)

THURSDAY 5 MAY

08:30-16:00 **Registration** (East Exhibition Level Lobby)

09:00-10:30 **Theme forum and concurrent sessions**

10:30-11:00 **Break** (Exhibit Hall A) *Sponsored by Global Container Terminals*

11:00-12:30 **Theme forum and concurrent sessions**

12:30-13:50 **Awards luncheon** (Exhibit Hall A)

14:00-15:30 **Theme forum and concurrent sessions**

15:30-16:00 **Break** (Exhibit Hall A) *Sponsored by CSA Group*

16:00-17:30 **Theme forum and concurrent sessions**

17:40-18:40 **Speed networking** (Room 19) *Sponsored by Hatch*

17:40-18:40 **Virtual coffee break**

Coffee breaks and lunches

Based on the data collected via registration forms, IAIA arranged for a percentage of vegetarian meals. This does not guarantee accommodation of individual preference.

Note: Lunch is NOT provided on 4 May.

See conferences.iaia.org/2022/monitoring-covid-developments.php for the latest information on COVID protocols.

FRIDAY 6 MAY

07:30-08:30	Meeting: SaskPower regional evaluation process for their small-modular reactor project (Room 1) <i>Sponsored by Hatch</i>
08:30-16:00	Registration (East Exhibition Level Lobby)
09:00-10:30	Theme forum and concurrent sessions
10:30-11:00	Break (Exhibit Hall A) <i>Sponsored by Vancouver Fraser Port Authority</i>
11:00-12:30	Theme forum and concurrent sessions
12:30-13:50	Lunch (Exhibit Hall A) <i>Sponsored by Enbridge</i>
12:30-13:30	Virtual coffee break
12:50-13:50	Special meeting: IAIA initiative to develop SEA guidelines for renewable energy (Room 13)
12:50-13:50	Committee meetings Awards Committee (Room 9) Training & Professional Development Committee (Room 14) Board Nominations Committee (Room 19)
14:00-15:30	Theme forum and concurrent sessions
15:30-16:00	Break (Exhibit Hall A)
16:00-17:30	Theme forum and concurrent sessions
18:00-20:00	Banquet (Ballroom)

SATURDAY 7 MAY

07:30-08:30	Virtual coffee break
08:30-13:30	Registration (East Exhibition Level Lobby)
09:00-10:30	Theme forum and concurrent sessions
10:30-11:00	Break (Exhibit Hall A)
11:00-12:30	Theme forum and concurrent sessions
12:30-13:50	Lunch (Exhibit Hall A)
12:50-13:50	Committee meetings IAPA Editorial Board Meeting (Room 14) Sections Coordinating Committee (Room 9)
14:00-15:30	Theme forum and concurrent sessions
15:30-16:00	Break (Exhibit Hall A)
16:00-17:15	Closing plenary (see page 13) (Ballroom BC)
16:00-17:30	Exhibit and poster dismantle

SUNDAY 8 MAY

10:00-13:00	Technical visit*: Urban agriculture-food justice
-------------	---

TECHNICAL PROGRAM: TOPICAL STREAMS

What are you interested in? Find your topic!

The technical program is structured into two primary streams: thematic sessions focusing on "Confidence in impact assessment: Policies, partnership, and public involvement," and general impact assessment sessions, including topics that address issues of interest to IAIA's special-interest Sections.

Conference theme

The role of legislation and policy in building confidence in impact assessment	21
Regional and strategic impact assessments: Moving from theory to practice and filling the data gap	24
Partnerships in unlikely places: How new relationships are transforming projects	25
Indigenous knowledge, local knowledge, and Western science/emerging technologies	26
Meaningful consultation: Advancing Indigenous governance and participation	27
Supporting human and community well-being through effective participation	27

IAIA Section and general topics

Agriculture, forestry, and fisheries	28
Community engagement	28
Indigenous peoples	28
Public participation	29
Strategic environmental assessment	30
Social impact assessment	30
Health impact assessment	32
Cumulative effects assessment	33
Impact assessment	33
Capacity building in impact assessment	34
Biodiversity and ecology	35
Climate change	35
Natural disasters and conflict	36
Corporate stewardship and risk management	36
Regulation and governance	36
Special to IAIA	38

As a courtesy to all speakers and to help reduce disruptions, we kindly ask that you remain in the session you're attending for all presentations.

Thank you for your consideration.

Technical program overview

Plenary (livestreamed/on-demand)
 Theme forum (livestreamed/on-demand)
 Concurrent session

	Ballrooms BC	Room 12	Room 13	Room 8
Wednesday 4 May				
13:00-14:30	Plenary (p 12)			
15:00-16:30	Meaningful participation: Defining this key to IA success and confidence (p 14)	Impact assessment: Tool for promoting conservation or delaying destruction (p 38)	Status of IALA's Climate Change Action Plan and next steps in 2022 (p 35)	Regional assessments: Objectives, approaches, and lessons from practice (p 25)
Thursday 5 May				
09:00-10:30	Confidence in policies and public involvement: Moving targets? (I) (p14)	Handbook of Cumulative Impact Assessment: Insights from contributing authors (p 33)	More collaboration...better results (I) (p 25)	Impact assessment innovations in Western and Northern Canada (I) (p 37)
11:00-12:30	Building confidence in EA through good evidence and practitioner integrity (I) (p14)	Confidence in policies and public involvement: Moving targets? (II) (p 22)	More collaboration...better results (II) (p 26)	Impact assessment innovations in Western and Northern Canada (II) (p 37)
14:00-15:30	Building confidence in IA results by using participatory approaches (I) (p15)	Building confidence in EA through good evidence and practitioner integrity (II) (p 21)	Nature positive: Reaching a global goal for nature (I) (p 34)	Impact assessment innovations in Western and Northern Canada (III) (p 37)
16:00-17:30	Beyond consent: Embedding Indigenous decision making in extractive projects (p15)	Building confidence in IA results by using participatory approaches (II) (p 27)	Nature positive: Reaching a global goal for nature (II) (p35)	Sharing steps to improve IA by using stronger argument and reasoning (p 34)
Friday 6 May				
09:00-10:30	Indigenous and stakeholder involvement in post-decision activities (p15)	Socio-economic and environmental assessments for modernized land use plans (p 24)	Trauma-informed impact assessment (p 27)	First experiences with Canada's 2019 Impact Assessment Act (I) (p 22)
11:00-12:30	Public participation during COVID-19 in the environmental impact assessment (p16)	Insights on land from the Inspection Panel and the IAMs of EIB and EBRD (p 38)	Working with Indigenous community to increase confidence in projects (p 29)	First experiences with Canada's 2019 Impact Assessment Act (II) (p 22)
14:00-15:30	ESG's importance in building confidence in impact assessment (p16)	Planning early for next generation IA: Lessons from BC, Canada, and beyond (p 23)	Impact of development on Indigenous community-conserved areas (I) (p 28)	First experiences with Canada's 2019 Impact Assessment Act (III) (p 22)
16:00-17:30	Streamlining EIA with pre-emptive "early" engagement: Does it work? (p16)		Impact of development on Indigenous community-conserved areas (II) (p 28)	The 50th anniversary of NEPA: Lessons learned and future challenges (p 24)
Saturday 7 May				
09:00-10:30	New models of IA and climate change law worldwide (p 17)	Participation, partnership, and impact assessment: Tools and practice for better outcomes (p 29)	Including nature-based solutions in project design and impact assessment (p 35)F	The COVID pandemic, disasters, conflict, impact assessment, and beyond (I) (p 35)
11:00-12:30	Planning for a greener future: The role of SEA and recommendations to COP27 (p 17)	Theories and concepts to build confidence in psycho-social impact assessment (p 34)	Modern approaches to assess and regulate energy infrastructure projects (I) (p 23)	The COVID pandemic, disasters, conflict, impact assessment, and beyond (II) (p 36)
14:00-15:30	EA follow-up: Exploring its role as a confidence-building exercise (p 17)	Measurement, methods, and meaning in psychosocial impact assessment (p 31)	Modern approaches to assess and regulate energy infrastructure projects (II) (p 23)	What's hot in social impact assessment (p 32)
16:00-17:15	Plenary (p 13)			

Technical program overview

Room 17	Room 18	Room 11	Room 16		Virtual
Wednesday 4 May					
				13:00-14:30	Pre-recorded presentations are available for on-demand viewing* in the Pathable platform.
Indigenous-specific cumulative effects assessment methodologies (p 33)	Young professionals in impact assessment (p 38)	Safeguarding Indigenous coastal communities and marine environments (p 27)	Human rights impact assessments: Trends and approaches (p 37)	15:00-16:30	
Thursday 5 May					Both in-person and virtual attendees are invited to explore these videos and interact with the presenters in the chat boxes. Access to the virtual presentations and livestreamed session recordings will remain available in Pathable through 4 June. *Recordings are best viewed on the desktop portal.
A holistic approach to SIA: Meaningful implementation for modern challenge (I) <i>Sponsored by Ausenco</i> (p 30)	From data and information to knowledge and wisdom in impact assessment (p 31)	Indigenous knowledge in impact assessment: International case studies (p 26)	Health impact assessment: Research, policy, and application (I) (p 32)	09:00-10:30	
A holistic approach to SIA: Meaningful implementation for modern challenge (II) <i>Sponsored by Ausenco</i> (p 31)	Increasing impact assessment transparency through open science and data (p 34)	State-Indigenous processes that advance FPIC requirements under UNDRIP (p 27)	Health impact assessment: Research, policy, and application (II) (p 32)	11:00-12:30	
Gender lens refocused: A deeper look at inclusion in impact assessments (p 28)	Compliance and enforcement of impact assessment decisions (I) (p 21)	AFF Section`s past, present, and future to reboot for enhanced application (p 28)	Health impact assessment: Research, policy, and application (III) (p 32)	14:00-15:30	
Gender impact assessment (GIA) with an inclusive perspective (p 31)	Compliance and enforcement of impact assessment decisions (II) (p 22)	Health impact assessment: Key topics and new direction for inclusion in handbook (p 27)	Good practices of tiering SEA and EIA: How to make it happen? (p 24)	16:00-17:30	
Friday 6 May					
Local content: From policies to results (p 36)	The intersection of ESG, sustainability, and IA (p 38)	Best practice principles for the independence of impact assessment reviewers (p 21)	Achieving more meaningful public participation in impact assessment (I) (p 29)	09:00-10:30	
Leadership in IA is strategic for increased confidence (p 25)	Online IA processes for sustainable development: Building relationships and collaboration (p 26)	Compliance and enforcement of EsIA: Principles and best practices (p 36)	Achieving more meaningful public participation in impact assessment (II) (p 29)	11:00-12:30	
Advancing impact assessment: Opportunities, methods, and tools (p21)	Asian S3EA: Strategic, spatial, and sustainable EA (I) (p 30)	Are we positive? Is IA prepared to implement positive effects requirements (p 21)	Achieving more meaningful public participation in impact assessment (III) (p 29)	14:00-15:30	
Health and safety is our everyday: Outcomes of community-led Indigenous HIA (p 27)	Asian S3EA: Strategic, spatial, and sustainable EA (II) (p 30)	Application of the Zone of Influence concept in impact assessments (p 33)	Impact assessment: Fostering partnerships for green resilient development (p 25)	16:00-17:30	
Saturday 7 May					
	Manito Aki Inakonigaawin and the Harmonized Impact Assessment Model (p 28)	IA: Special challenges and potential (I) (p 33)		09:00-10:30	
	Integrating intangible and spiritual values in impact assessment (p 26)	IA: Special challenges and potential (II) (p 34)		11:00-12:30	
		Game-changer: Social performance and community health & safety in Anglo American (p 36)		14:00-15:30	
				16:00-17:15	

Virtual experience

MOBILE APP AND DESKTOP PORTAL

IAIA has partnered with Pathable to make IAIA22 an **interactive virtual conference experience for both in-person and virtual attendees**. The platform can be used seamlessly across your devices—data syncs between your desktop portal and mobile app. The opening and closing plenaries and all theme forums will be **livestreamed** to the virtual platform and **recorded** for online viewing. In-person and virtual attendees will be able to **chat and interact in real time** during these live sessions via the mobile app and desktop portal. Plus, **questions can be posted at any time**, even after the session has occurred, for ongoing discussion.

Take advantage of the virtual networking opportunities offered throughout IAIA22. Both in-person and virtual delegates can participate in virtual coffee breaks, viewing of recorded presentations, and visiting the online exhibitors.

Access to the livestreamed and pre-recorded presentations will be available to both in-person and virtual attendees through **4 June**.



Use the **Desktop Portal**, the **Mobile App**, or both to:

- Help others find you—complete your profile and upload a photo.
- Search for sessions, speakers, and attendees.
- Select your favorite sessions and create your personal agenda.
- Download speaker handouts.
- Take notes and send them to yourself.

Attending in person? Receive instant notifications of program changes on-site.

Virtual attendee? Watch livestreamed sessions via the desktop portal for best quality and interaction.

Lots more conference information is available in Pathable.

Find tips for presenters, Vancouver information, general information about IAIA22, Session formats explained, and more!

Mobile app sponsored by TC Energy.

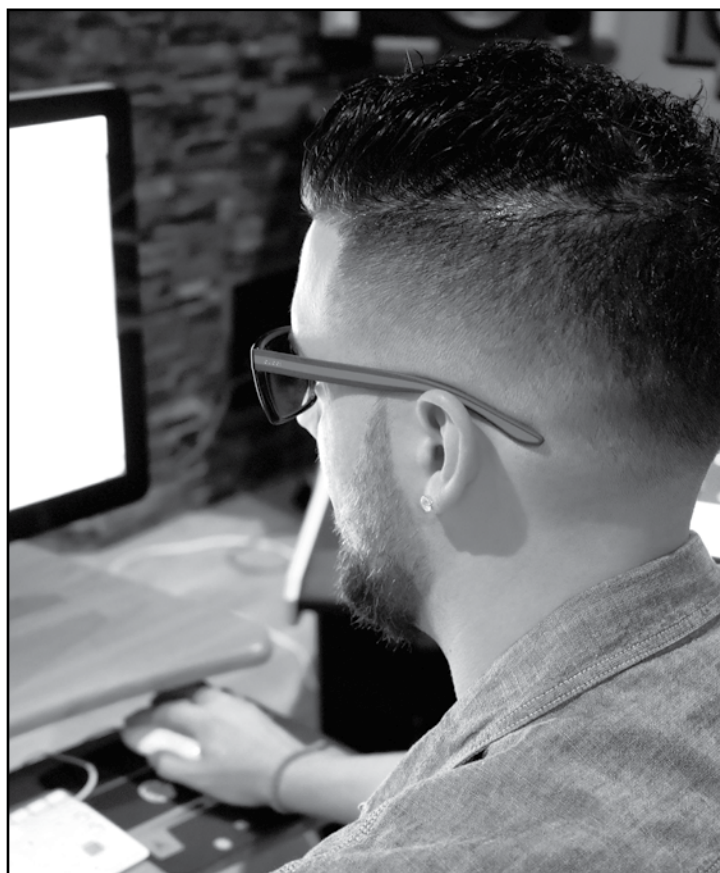


The Mobile App and Desktop Portal are available 1-2 weeks before IAIA22 opens.

Virtual platform: IAIA will email registered delegates with access details and login instructions.

Mobile App: You will be notified when the app is available to download in Google Play or the App Store.

You must be a registered attendee to be able to view the restricted portions of the app such as attendee and speaker contact details.



VIRTUAL EXPERIENCE SCHEDULE

These events are accessible by both virtual delegates (livestreamed to the Desktop Portal) and in-person delegates (on-site in Vancouver and in the mobile app).

The **plenaries** and **theme forums** are in-person sessions **livestreamed** to the virtual platform. See pages 12 and 14 for full descriptions.

Virtual **and** in-person delegates can interact in the session **chat function** in **real time** during livestreamed events. Participate in live polls, post your questions, and meet other delegates.

Vancouver Time (PDT)	UTC/GMT Time	Event
WEDNESDAY 4 MAY		
13:00 PDT	20:00 UTC	Opening plenary
15:00 PDT	22:00 UTC	Theme forum: Meaningful participation: Defining this key to IA success and confidence
THURSDAY 5 MAY		
09:00 PDT	16:00 UTC	Theme forum: Confidence in policies and public involvement: Moving targets? (I)
11:00 PDT	18:00 UTC	Theme forum: Building confidence in EA through good evidence and practitioner integrity (I)
14:00 PDT	21:00 UTC	Theme forum: Building confidence in IA results by using participatory approaches (I)
16:00 PDT	23:00 UTC	Theme forum: Beyond consent: Embedding Indigenous decision making in extractive projects
17:40 PDT	00:40 UTC	Virtual coffee break
FRIDAY 6 MAY		
09:00 PDT	16:00 UTC	Theme forum: Indigenous and stakeholder involvement in post-decision activities
11:00 PDT	18:00 UTC	Theme forum: Public participation during COVID-19 in the environmental impact assessment
12:30 PDT	19:30 UTC	Virtual coffee break
14:00 PDT	21:00 UTC	Theme forum: ESG's importance in building confidence in impact assessment
16:00 PDT	23:00 UTC	Theme forum: Streamlining EIA with pre-emptive "early" engagement: Does it work?
SATURDAY 7 MAY		
07:30 PDT	14:30 UTC	Virtual coffee break
09:00 PDT	16:00 UTC	Theme forum: New models of IA and climate change law worldwide
11:00 PDT	18:00 UTC	Theme forum: Planning for a greener future? The role of SEA and recommendations to COP27
14:00 PDT	21:00 UTC	Theme forum: EA Follow-up: Exploring its role as a confidence-building exercise
16:00 PDT	23:00 UTC	Closing plenary
ALL WEEK		
On demand		Recorded presentations, virtual posters, and virtual exhibitors available in Pathable.

VIRTUAL COFFEE BREAKS

Join fellow delegates (both virtual and in-person) for networking, exchanging ideas, and making new friends. These casual, Zoom-based conversations are a chance for delegates to connect live throughout the week. Each break will be hosted by an IAIA member with a conversation starter, but everyone is welcome to introduce new topics into the discussion. Join through the event links in Pathable.

Thursday, 5 May | 17:40-18:40 PDT (00:40 UTC 6 May)

Friday, 6 May | 12:30-13:30 PDT (19:30 UTC)

Saturday, 7 May | 07:30-08:30 PDT (14:30 UTC)

VIRTUAL EXHIBITORS

Explore the virtual exhibits in Pathable to learn more about organizations working on impact assessment around the world. You can even schedule a one-on-one meeting with representatives of the two premier exhibits.

- Royal HaskoningDHV – InterVISTAS (PREMIER)
- SEARCH – Ocean Infinity (PREMIER)
- Stantec
- Celsius 1.5: Impact Assessment and Climate Change Symposium (IAIASa)
- IAIA23 (Kuching, Malaysia)
- IAIA22 Conference Hosts
- BIOTA - Estudos e Divulgação em Ambiente, Lda.
- IAIA Western and Northern Canada (WNC)
- WSP Golder
- Sponsors
- IAIA award winners
- Affiliate organizations

*Virtual participants:
Ask questions on Pathable!
Some questions will be
selected to be read live to the
theme forum presenters.*

Hosts welcome



Honourable George Heyman
Minister of Environment and Climate Change
Strategy and Minister Responsible for TransLink
Government of British Columbia



Elenore Arend
Associate Deputy Minister and Chief Executive
Assessment Officer, Environmental Assessment Office,
Government of British Columbia

IAIA welcome



Marla Orenstein
Canada West Foundation
IAIA President



Chief Wayne Sparrow
xʷməθkʷəy̓əm (Musqueam Indian Band)



Spokesperson Sxwixwtn Wilson Williams
Sk̓w̓xwú7mesh Úxwumixw (Squamish Nation)



Chief Jen Thomas
səlilwətał (Tsleil-Waututh Nation)

Keynote speaker



Aaron Bruce
Indigenous legal expert, principal of Aaron Bruce Law Corp., and member of Squamish Nation
Aaron Bruce Law

Reflections on the Squamish Nation environmental assessment process

Woodfibre LNG applied to the provincial Environmental Assessment Office to develop a liquified natural gas project in the heart of Squamish territory. From the Squamish Nation's perspective, environmental legislation and policy did not provide opportunities for the Squamish Nation to be a collaborative partner with other levels of government in assessing the project and for meaningful participation in the environmental assessment process. The Squamish Nation did not have confidence or trust in the provincial and federal assessment processes, which has been a common position of Indigenous Nations in Canada. The Squamish Nation decided to take matters into its own hands and developed a Squamish Nation-led assessment of the Woodfibre LNG project based on its own values and decision-making process and without provincial and federal government participation. Following the Squamish Nation-led process, both the federal and provincial governments changed their respective environmental laws attempting to be inclusive of Indigenous interests, knowledge, and perspectives.

The theme of the IAIA 2022 conference is Policy, Partnerships, and Participation. Sharing his reflections on the Squamish Nation assessment process and considering the changes to environmental laws in Canada, Aaron walks us down a path to think more deeply about what law and policy, partnerships, and participation in impact assessment in Canada could look like based on the learnings from the Squamish Nation-led process.

Aaron is a member of the Squamish Nation and has worked as lawyer for 18 years including as a partner at one of the leading aboriginal law firms in Canada and has recently started his own law firm, Aaron Bruce Law, continuing to represent Indigenous Nations regarding aboriginal rights and title, natural resource law, and Indigenous jurisdictional and governance issues.

Keynote speaker



Diana Lewis
Assistant Professor
University of Guelph

Developing an Indigenous-led environmental health risk assessment approach

Indigenous worldviews must inform environmental decisions, specifically as resource or industrial development decisions impact the health of communities. In her doctoral research, Dr. Lewis worked with the women of the Pictou Landing First Nation in Nova Scotia to reveal how a federally mandated environmental health monitoring committee was unable to demonstrate that the health of the community had been impacted by decades of exposure to pulp mill effluent being pumped into a body of water adjacent to the First Nation.

Dr. Diana (Dee) Lewis, a member of the Sipekne'katik Mi'kmaq First Nation in Nova Scotia, is an Assistant Professor appointed to the Department of Geography, Environment & Geomatics at the University of Guelph in Ontario, Canada. Dr. Lewis' research interests are to foster a wider understanding of Indigenous worldviews, and how Indigenous worldviews must inform environmental decisions, specifically as they are impacted by resource or industrial development. Dr. Lewis is a strong advocate for Indigenous data sovereignty and Indigenous-led decision-making. She now works with Indigenous communities across Canada to develop an Indigenous-led environmental health risk assessment approach.

Presidential address



Gaby Factor
Environmental and Social
Specialist
Incoming IAIA President

Invitation to IAIA23 Kuching



8-11 May 2023

Thank you



Elenore Arend
Associate Deputy Minister and Chief Executive
Assessment Officer, Environmental Assessment Office,
Government of British Columbia

Closing address

Representatives of xʷməθkʷəy̓əm (Musqueam Indian Band), Skwxú7mesh Úxwumixw (Squamish Nation), and səliłwətał (Tseil-Waututh Nation)



Theme forums

Smaller than plenaries and larger than concurrent sessions, theme forums include “cut-above” presentations and discussions which address the conference theme, bring together on a particular topic the various aspects of impact assessment, and examine how those aspects apply to different sectors and issues.

Theme forums are livestreamed and recorded for on-demand viewing on the Pathable platform.

Meaningful participation: Defining this key to IA success and confidence

Wednesday 4 May | 15:00-16:30 | Ballrooms BC

Theme forum - Paper session

Chair(s): Janet Blackadar

This session aims to explore what constitutes meaningful participation and how it can contribute to a successful IA outcome. We explore how our understanding of meaningful participation may evolve with different project types, locations, and regulatory drivers.

Meaningful participation in social impact assessment process: From ticking the boxes to operationalizing a customized approach

Nguyen, Quy Nghi

Requirements on stakeholder engagement and consultation are hardly applied in full-fledged when it comes to enforcement. Our presentation demonstrates factors contributing to meaningful participation in social impact management.

The Rijnenburg energy landscape participation process from a citizen's perspective

Nuesink, Jan

Overview and appreciation of a public participation process in preparation for decision making envisaging a green energy generation transformation of a rural polder area.

A wider comprehension of public participation: Strengthening its agency

López Espinoza, Luis Alberto

This paper seeks to incorporate into the discussion about public participation the intercultural perspective from Indigenous societies and their comprehension of what makes it meaningful.

Indigenous communities and international mediators in the EIS public review process

Skrzypek, Emilka

This paper explores the role of international allegiances and mediators in facilitating Indigenous Peoples' participation in the EIS public review process.

Confidence in policies and public involvement: Moving targets? (I)

Thursday 5 May | 09:00-10:30 | Ballrooms BC

Theme forum - Paper session

Chair(s): Aaron Goldschmidt

Whether intentional or not, IA has been pulled from a third-party, unbiased, science- and community-based practice to a politicized “hot button,” resulting in a whiplash effect ranging from implementation of requirements to confidence in the process.

Increasing transparency in the determination of significance

Paredes, Alvaro; Paredes Heidemann, Jerome

An examination of the shifting context for determining significance of residual impacts with proposals for improving this process to better serve communities, stakeholders, consultants and regulators

Is ESIA saving our natural heritage? A case of Uganda government projects

Namara, Justine

Saving natural heritage through use of ESIA's. How effective is the process now?

Evolution in guidance for EIA implementation as a confidence-building measure: A comparative case study of Brazil, Chile, and Colombia

Loomis, John; Bueno Wandscheer, Clarissa; Grando,

Isabela Martins Hoff; Glasmeyer, Sergio Paulo

An analysis of the evolution in guidance for EIA implementation as a confidence building measure in Brazil, Chile, and Colombia.

Regulatory risk management in multi-country impact assessments: The case of subsea fiber optic cable projects

Yanez, Silvia

Best practices from subsea fiber optic cable projects successfully installed in Latin America by using risk assessment as a tool for managing IA regulatory drivers of change in multiple countries.

See part II of this session Thursday 5 May | 11:00-12:30 | Room 12.

Building confidence in EA through good evidence and practitioner integrity (I)

Thursday 5 May | 11:00-12:30 | Ballrooms BC

Theme forum - Panel discussion

Chair(s): George Hegmann

This panel-based session focuses on how building confidence in project environmental assessment can happen between consulting practitioners and other assessment participants. Here, confidence is of evidence (in provided information), of trust (in those who prepare that information), and of outcomes (from open inclusive engagement).

The rigor of practitioner practice

Horvath, Celesa

Confidence in IA depends on practice, the rigor of which bears significantly on the credibility of both the process and its outcomes.

The nature of IA evidence: Planning or regulatory

Gorber, Don

The ultimate objectives of IA need to be balanced with the ability to offer good evidence.

The IA practitioner's role: Trusted advisor or advocate

Van Buren, Aurora

Practitioners can gain confidence among all participants as trusted advisors.

The reality of “real-world” socio-economic assessment

Włodarczyk, Tomasz

Assessment of socio-economic effects involves challenges that must be understood to appreciate the challenges for practitioners.

International experience and confidence in IA

Scott-Brown, Miles

Stakeholder confidence in IA internationally is higher than the polarized process in Canada and faces challenges in baseline, governance, practitioner capacity, quality, and lender expectations.

See part II of this session Thursday 5 May | 14:00-15:30 | Room 12

Live
chat
available!

Building confidence in IA results by using participatory approaches (I)

Thursday 5 May | 14:00-15:30 | Ballrooms BC

Theme forum - Panel discussion

Chair(s): Victoria Griffiths, Mark Barnett

Putting local people at the center of an evaluation by using participatory approaches will not only improve the quality of an impact assessment but will increase confidence in the its results. This session aims to explore how novel participatory approaches are used in practice, drawing on experiences, insight, and hindsight.

Using citizen science to encourage IA participation and deliver benefits to communities

Barnett, Mark; Nicolls, Charlotte

Using examples from previous significant projects, this paper explores different approaches of public participation, showing how they have shaped how we work with communities while delivering the UK's Geological Disposal Facility.

Amplifying the perspectives of program participants: What works?

Zook, Lisa

This paper looks at one project from the perspective of several different data sources, reflecting upon which methods best facilitated participatory approaches and what was learned from those methods.

Collaborative assessments: Melding Indigenous nation wants with project proponent needs

Swinscoe, Julie; Johnnie, Kathleen; Robinsmith, Hailey

This paper provides a case example of a how an Indigenous Nation and a proponent successfully collaborated to assess Indigenous interests impacts for a project in BC by employing an original process.

Fighting ghost fishing with fishers: The role of fishers' knowledge in building evidence on handling and management of fishing gears in Norway

Deshpande, Paritosh

Case study presenting methods and results to extract fishers local ecological knowledge on fishing gears to generate evidence on plastic pollution from the fishing sector of Norway.

See part II of this session Thursday 5 May | 16:00-17:30 | Room 12

Beyond consent: Embedding Indigenous decision making in extractive projects

Thursday 5 May | 16:00-17:30 | Ballrooms BC

Theme forum - Panel discussion

Chair(s): Andy Symington

Indigenous self-determination requires not only consent to a project but that communities define its parameters and participate in operational decision making. This panel discusses partnerships between Indigenous communities and extractive companies, co-management and operationalization, beyond FPIC, of true self-determination.

Indigenous communities and operational decision making in the extractive industry in Alberta

Hovsepian, Donna

How Indigenous communities define parameters and participate in operational decision making in the extractive industry in Alberta.

The future of free, prior, and informed consent

Hartling, Jay

Principal Corporate Affairs Legacy Assets BHP Canada

Indigenous and stakeholder involvement in post-decision activities

Friday 6 May | 09:00-10:30 | Ballrooms BC

Theme forum - Panel discussion

Chair(s): Philip Seeto

Building public trust in IA requires involvement of Indigenous peoples and stakeholders following a decision. To accomplish this we require approaches that consider funding needs, legal limitations, policy approaches, and creativity. Help us dive into a discussion on best practices for achieving these goals.

Perspectives on Indigenous monitoring and relationship building

Loewen, Chris; Thomas, Carleen; Pauze, Marc; Eagles, Kathryn

This discussion explores Indigenous and federal regulatory perspectives around the Trans Mountain Pipeline Expansion and the associated Indigenous Advisory and Monitoring Committee.

The evolution of the CER's Indigenous monitoring program: Lessons learned

Pauzā, Marc; Eagles, Kathryn

This paper discusses the evolution of the Indigenous monitoring programs with emphasis on next steps and the impact to the assessment and construction phases of CER-regulated pipelines.

Environmental stewardship initiative: Lake Babine Nation wetland case study

Wright, Nicole; Kurtz, Jayson

The LBN wetland ISP demonstrates the effectiveness of ESI to build indigenous capacity to generate high quality, trusted environmental information to inform resource management decisions.

Stakeholder involvement does not end at project approval

Seeto, Phil

How do you build greater trust into the assessment process? Continue the dialogue after a decision. Canada's plans to involve Indigenous peoples and stakeholders in post-decision activities.

Public participation during COVID-19 in the environmental impact assessment

Friday 6 May | 11:00-12:30 | Ballrooms BC

Theme forum - Paper session

Chair(s): Celia Cáceres Bueno

The pandemic caused by COVID-19 means a challenge for the actors involved in the process of evaluating environmental impact studies that seeks to guarantee the right to effective, inclusive, transparent, accessible, and timely citizen participation.

How can digital tools support stakeholder engagement during lockdown?

Bobbio, Emanuele; Moraes, Rosana; Dragan, Massimo; André, Christophe; Torchia, Giovanni

How can effective stakeholder engagement be performed during a pandemic? Digital tools were leveraged to support an ESIA process that was performed while Europe was in lockdown.

Virtual hearings as a tool to enhance participation in impact assessment

Utting, Tracy; Wheaton, Tara; Arruda, Elaine; Sabo, Samantha

In this case study, we discuss the use of a virtual public hearing to enhance participation in a joint federal-provincial assessment of a metallurgical coal mine in Canada during the COVID-19 pandemic.

Coordination and capacity building to complete impact assessment during the COVID-19 pandemic

Arko, Tara

The Nunavut Impact Review Board has completed an assessment for a major project since the COVID-19 pandemic was declared; here is a discussion of engagement, resource use, and outcomes of the process.

Public participation in impact assessment: Applying lessons learned to meaningful engagement post-COVID

D'Onofrio, Rebecca; Cormier, Marylene

The Impact Assessment Agency of Canada discusses its approach to implementing meaningful public participation in federal IAs during the COVID-19 pandemic, and lessons learned for the future.

ESG's importance in building confidence in impact assessment

Friday 6 May | 14:00-15:30 | Ballrooms BC

Theme forum - Panel discussion

Chair(s): Francois Landry

The panel discussion will highlight emerging regulatory requirements and effective ESG planning, reporting and engagement in a post-COVID world. The session will focus primarily on ESG's application on impact assessment in the extractive sectors.

Jackie Lerner

Dr. Jackie Lerner is ERM Canada's Regulatory and Permitting Team Lead with 25 years' experience in BC, Canada, and international impact assessments.

Justin Himmelright

Justin Himmelright, Vice President Sustainability at Skeena Resources, is a management professional with over 25 years' experience securing social license and environmental permits for industry.

Gerald Singh

Gerald Singh's research combines cumulative effects and ecosystem services to aid sustainable development. He also researches governance structures to support environmental and development decisions.

Nathan Braun

Nathan Braun, Partner at ERM Canada, spent over 20 years as a regulator, most recently as the BC Environmental Assessment Office's Executive Project Director for Mining, and previously for Oil & Gas.

Allison Grant

Allison Grant is a Senior Consultant, Project Manager, at ERM with over 10 years of experience in BC, Canada.

Joel Forrest

Joel has held various regulatory law roles at TC Energy supporting permitting energy infrastructure projects. Joel leads the Environment, Land and Regulatory Team for the Coastal GasLink Project.

Andrew Mathewson

Principal Consultant (Social Performance)

Streamlining EIA with pre-emptive "early" engagement: Does it work?

Friday 6 May | 16:00-17:30 | Ballrooms BC

Theme forum - Panel discussion

Chair(s): Malcolm Smith, J. Charlie Palmer

This session will offer value to practitioners in exploring the benefits of formal pre-emptive engagement versus allowing these approaches to be conducted voluntarily and provide information that can be used to improve early engagement regardless of the jurisdictional requirements.

Value and benefits of early engagement under the BC Environmental Assessment Act (2018)

Walters, Kim

This presentation provides an approach to describing how early engagement brings confidence to EAs through meaningful conversations and consultation with Indigenous nations.

Benefits of early planning and participatory decision-making

Webster, Allan; Mayhew, Melissa; Perritt, Jessica

This article demonstrates to proponents that adopting good practices early in the impact assessment process can help to achieve positive project outcomes.

The extreme need to be proactive with ESIAs

Graham, Tasman

There is a compelling case to be proactive with environmental and social impact assessment and management planning.

The role of the IA practitioner in collaboration efforts prior to EIA commencement

Martin, Gina

Share experiences of increased demands on shortened EIA timeframes and the requirement for collaboration prior to EIA commencement, and the role of the IA practitioner in coordinating this.

New models of IA and climate change law worldwide

Saturday 7 May | 09:00-10:30 | Ballrooms BC

Theme forum - Paper session

Chair(s): Abulele Adams

IAIA Section: Climate Change

Four presenters will discuss model IA law, including more effective strategic environmental and social assessment and cumulative effects assessment in climate change mitigation and adaptation, and improved public participation processes. Also watch Michael Gerrard's pre-recorded video "Impact assessment, new models of IA Public Involvement and state-level decarbonization" (page 20).

Institutional arrangements to support climate action using model IA law

Fineran, Stacey

This presentation explores examples of institutional arrangements in the context of emerging climate action initiatives and model IA laws, principles, and best practices.

Progress and challenges in requiring federal impact assessments of high-carbon projects in Canada

Hazell, Stephen

Canada's new law requires that climate impacts be considered in impact assessments; however, the law applies to far fewer projects than previously, thus limiting the benefits of the law.

Climate change and assessing offshore oil and gas

Stewart, Ian

Using IAs to address climate change in the offshore oil and gas sector is not easy. A case study from Canada's East Coast illustrates why.

Integrating climate change and carbon reduction into EIA in Asia

Devaporihartakula, Chochoe

Good practices to integrate climate change mitigation and adaptation measures into EIAs are limited, particularly in developing countries, due to the lack of EIA mechanisms to handle uncertainty.

Planning for a greener future? The role of SEA and recommendations to COP27

Saturday 7 May | 11:00-12:30 | Ballrooms BC

Theme forum - World Café

Chair(s): Peter Nelson

Join the debate on this ground-breaking SEA which examines the global challenges of climate change biodiversity loss; poverty and inequality; war and peace and international governance. Discuss the SEA's contents, potential solutions and help make recommendations to be submitted to the UN and COP 27 at Sharm El-Sheikh in November 2022.

Planning for a better, greener future

Nelson, Peter

SEA principles are used to examine the impacts of human development on the global environment, and the resulting social and economic effects. Three scenarios for the future are presented.

EA Follow-up: Exploring its role as a confidence-building exercise

Saturday 7 May | 14:00-15:30 | Ballrooms BC

Theme forum - Paper session

Chair(s): Urmila Jha-Thakur, Ritu Paliwal

This session will explore environmental assessment follow-up case studies from around the world to review the extent to which they are helping in confidence building within and for impact assessment (IA). In doing so, the case studies will be compared against the recently-updated best practice principles of IA follow-up.

Can monitoring disentangle post-disaster impact assessment puzzles?

Sánchez, Luis; Barbosa, Francisco; Wey de Brito, Maria Cecilia; Maroun, Christianne; Renshaw, Johnatan; May, Peter

Extensive monitoring of coastal and marine environments affected by the dispersal of mine tailings from a failed dam in Mariana, Brazil, is reviewed to assess the state of knowledge.

Are baseline and modeling supporting EA follow-up for hydroelectric dams?

Brown, Carolyn; Noble, Bram; Munkittrick, Kelly

Recent hydroelectric dam EAs in Canada were examined to evaluate the alignment of baseline, predictive modeling, and monitoring phases.

View of tourists and recreational users on energy development at Hengill geothermal area

Adalsteinsdottir, Heida; Gunnarsdottir, Gudrun Thora

How does an attitude survey conducted 10 years after a geothermal power plant's commission compare to a similar survey conducted as a part of an EIA before the commission?

Environmental impact assessment follow-up in the Nigerian oil sector:

Understanding ownership differentials

Tafida-Isa, Maulud

Environmental impact assessment follow-up in the Nigerian oil sector: understanding ownership differentials.

Advancements in IA practice: New and evolving methods for IA

Online

From new methods for biological assessments to approaches for the evolving practice of addressing gender based assessments in EIA, this session explores an array of new, innovative, and thought-provoking topics that advance the practice of EIA. This session is essential viewing for EIA practitioners looking for leading-edge ideas.

Qualitative methods for sustainability-oriented next generation IA

Walker, Heidi; Pope, Jenny; Sinclair, John; Project Core Team

This presentation explores the range of qualitative methods available for sustainability-oriented next generation IA, with an emphasis on best practice considerations.

How many insects do the cars kill on the road? Learn to count them (as best you can)

Garcia Sanchez-Colomer, Manuel; Franco Saldarriaga, Alejandra; Garcia Tuesta, Oscar

We present the insect collector to study the impact of traffic on roads on insects. We estimate that between 4,000 and 47,000 insects/km²h are killed on a highway depending on the location studied.

The contribution of resilience assessment to impact assessment

Jenkins, Bryan

This paper describes resilience assessment and its application to impact assessment of projects, policies, and programs as well as its incorporation in project design.

Barrier removal to improve stream connectivity as a project mitigation measure: A prioritization approach arising from a hydropower impact assessment

Rosa, Susana; Pires, Daniel; Rodrigues, Patricia

The paper presents a river barrier removal prioritization approach to mitigate hydropower projects impacts.

A pathway when causality is not clear

Nunes Ramaldes, Luisa; Campos Viana, Frederico; Souza Cavalcante, Aline; Arpini Boni Pereira, Daniela; Poton Miranda, Guilherme

Ex-post impact assessments have a strong link with the necessity to establish causality, which brings a lot of complexity to the process. We developed a framework to overcome this issue.

The search for specifics in ex-post impact assessments

Campos Viana, Frederico; Souza Cavalcante, Aline

The process of ex-post impact assessments demands a different and specific mindset of the practitioners, with a more objective focus, in contrast with the predictive view of the conventional way.

The use of axioms for impact assessment, the Ouro Preto case.

Souza Cavalcante, Aline; Campos Viana, Frederico; Nunes Ramaldes, Luisa

The axioms for disaster impact assessment exist in a tool developed by the Renova Foundation to guide our principles for conducting impact assessments. This is a case study of its application.

Defining an ecologically appropriate area of analysis that meets the intent of PS6

Sare, Kristine; Treweek, Jo; Knopff, Kyle

We aim to clarify the intent of the term ecologically appropriate area of analysis (EAAA) as described in the PS6 Guidance Note and present an approach for defining an EAAA that meets this intent.

An HSI model of *Sasakia charonda* for SATOYAMA conservation activities

Asami, Yuri; Tanaka, Akira

The study aims to develop a quantitative biodiversity evaluation method for the biological impacts of Satoyama conservation, using *Sasakia charonda* as an example.

GBA+ in socio-economic assessment:

Advancing methodology in context

Haalboom, Bethany; Rickerby-Nishi, Farron; Recalma, Draco

This presentation considers the methodological limitations of GBA+ guidance to urban contexts and proposes examples of GBA+ refinements to enhance practitioner capacity and methodological rigour.

Bridging the gap between the theory and practice of IA

Online

This session examines the relationship between impact assessment (IA) theory and practice, including considering whether and how well IA in practice aligns with and supports the achievement of the goals and desired outcomes of IA in theory.

Improving regulatory efficiency with readability

McKie, Emily

Readable impact assessment summaries can provide economic benefits and strengthen environmental protection.

Integral climate proofing the SEA as key instrument

Jiricka-Purrer, Alexandra; Geissler, Gesa

Several studies pointed out the theoretic ability of the SEA to consider climate change in an integral way. This talk reflects the opportunities as well as the hindering factors in practice so far.

Shifting Baselines in EIA: A global baseline analysis

Vdov, Olga; Portman, Michelle

How is the baseline defined by EIA Guidelines around the globe and why does it matter? A fresh view on EIA theory.

Developing an EIA Institutional network analysis to improve practice and collaboration among actors

Nita, Andreea; Fineran, Stacey

Novel framework to increase the effectiveness and accuracy of the EIA process by exploring the interplay between actors and providing practical solutions for a proper collaboration for climate action.

EIA effectiveness per economic sector in Argentina

Canoura, Miguel; Zuleta, Gustavo

EIAs from 10 economic sectors in Argentina were analyzed in order to determine their effectiveness. Mining shows the better performance, while agriculture and cattle raising the lowest.

Health impact assessment (HIA) in Italy: What's new?

Cavanna, Valentina

An update on the implementation of HIA in Italy, to understand how Italy is providing protection to health in the context of environmental proceedings.

Assessing the effectiveness of ESIA legal frameworks in mining

Nare, Clemence; Hill, Jennifer

The Intergovernmental Forum on Mining (IGF) will discuss the lessons learned from deploying its new Mining ESIA tool and how the tool is promoting dialogue, improving policies, and building capacity.

Policy frameworks for strategic and regional assessments under the Impact Assessment Act

Gomez Wichtendahl, Carla; Blair, Kevin

A presentation on the Impact Assessment Agency of Canada's policy frameworks for regional and strategic assessment under the Impact Assessment Act.

A bottleneck in the biodiversity offsets adoption in EIA systems of Japan

Han, Leah

This study explores the reasons behind the non-adoption of binding offsets policy in Japan based on a literature review and the case study of Aichi prefecture.

Environmental impact matrices for the end of life of wind farms

Mello, Gisela; Ferreira Dias, Marta; Robaina, Margarita

In this presentation, we will provide and discuss matrices of environmental impact assessments for the end of life solutions of wind farms based on a systematic literature review.

Streamlining EIA? Bilateral agreements between governments in Australia

Pope, Jenny

Australia is working to streamline EIA by making states responsible for EIA under Commonwealth legislation. The implications of this for EIA in Western Australia will be discussed.

Public and community involvement in IA

Online

This session contemplates guidance and best practices for public and community involvement in various stages of IA processes, the role of public participation in achieving sustainable development, and ways to improve collaboration between local stakeholders, IA practitioners, and developers.

Exploring best practice principles for public participation: Informing a refresh of the IAIA Public Participation Best Practice Principles

Burdett, Tanya

Refreshing the IAIA Public Participation International Best Practice Principles: member suggestions and refresh to reflect engaging in the era of COVID19 and emerging hybrid engagement practice.

Who says what? Characterizing public participation in Urban Plans SEA

Fernandes, Maria da Luz; Moreno Pires, Sara; Polido, Alexandra

This research aims to understand how stakeholders affect SEA towards sustainability by analyzing the public participation phase. It showed that stakeholders empowerment is key to this change.

The role of IA in achieving sustainable development

Online

This session examines whether and how impact assessment (IA) can contribute to the achievement of sustainability and sustainable development goals.

Rebuilding the sustainable transport hierarchy in partnership using HIA

Douglas, Margaret; Macdonald, Ali; Teuton, Joanna

Partnership between transport policy makers, public health, and other stakeholders using health impact assessment to support healthy sustainable transport policy.

Mitigation hierarchy: A mechanism to support biodiversity conservation in Mozambique, Eastern Africa

Nicolau, Denise; von Hase, Amrei

Application of the mitigation hierarchy, including biodiversity offsets, in Mozambique: Improving policy, developing tools, testing practice to support alignment with overarching biodiversity goals.

Sustainability-based guidance for assessing Canadian coal phase-out policy

Cricenti, Giulia

This paper sets out an approach to sustainability-based, strategic level guidance for Canadian federal coal phase-out policy development with implications for project-level assessments.

How efficient is IA to promote SDG3?

Dietler, Dominik; Winkler, Mirko S.

Health impact assessment has the potential to promote SDG3. However, remaining health impacts and health equity issues reveal shortcomings in current impact assessment practice.

A study on no net loss policy for building a sustainable society in Japan

Abe, Asahi; Tanaka, Akira

This study examines the framework for building a sustainable society in Japan by investigating the no net loss policy in the international context.

The role of IA in addressing regional and global-scale issues

Online

How the consideration of environmental and social factors through project-specific or strategic IA can contribute to addressing national- or regional-scale issues.

Co-construct tools with territorial stakeholders to assess landscape issues

Brisson, Geneviève

The landscape is the bridge between the scales of governance of a territory and has been privileged to equip SIA practices within the framework of Quebec's EI.

The role of Indigenous peoples, knowledge, culture, and governance systems in IA

Online

This session explores the many ways in which Indigenous peoples, knowledge, culture, and governance systems are essential for successful IA. The session provides examples of successes and challenges with a goal of inspiring practitioners towards improved IA practice.

From “stakeholders” to rights holders: How research capacity affects Indigenous participation in Impact Assessment in the Yukon Territory, Canada

Darling, Sam; Hickey, Gordon; Harvey, Blane

The case of IA in the Yukon Territory is examined for strategies for engagement used by Indigenous governments, where IA is a tool for enforcing modern day treaties and as a space for social learning.

Case study: Indigenous input integral in hydro dam evaluation

Guillemette, Christina

Input from an Indigenous people resulted in the protection of a cultural keystone place by reducing collective long-term effects to fish, wildlife, heritage resources, and well-being.

Abandoned mines and Indigenous Communities: A Canadian North experience

McDonald, Lindsey; Baker, Nadia

Remediation of abandoned mines in Canada's North is evolving to include enhanced Indigenous engagement and robust socio-economic mitigation measures to support Indigenous communities.

New models of IA and climate change law worldwide

In-person/Online

See page 17 for the in-person portion of this session.

Presenters from different parts of the world discuss elements of model IA law, including more effective application of strategic environmental and social assessment and cumulative effects assessment in climate change mitigation and adaptation as well as improvement of public participation processes.

Impact assessment, public involvement and state-level decarbonization

Gerrard, Michael

The roles that impact assessment and public involvement are playing in implementing New York State's new laws on climate change and renewable energy facility siting.

Why does stakeholder engagement matter for impact assessments in LAC?

Chair(s): *Eva Heiss, Esteban Tovar*

Online

Stakeholder engagement? Yes, please! This session looks into the many reasons why engaging stakeholders is key to sustainable project outcomes. In a dynamic Panel we will share perspectives of the financier and the independent accountability office, hoping to shed light on challenges and opportunities for Latin America and the Caribbean.

Mapping the engagement approach to changing stakeholders expectations

Joyce, Susan

Community expectations are changing at a rapid pace around the world, and in Latin America. There is no way to be effective without a respectful approach to and deep understanding of stakeholders.

The role of an independent and extrajudicial office within an international financial institution

Tovar Cornejo, Esteban

Perspective from an independent complaint office, statistics/findings of complaints received related to issues around consultation, access to information and stakeholder engagement.

Stakeholder engagement in Perú: Senace's experience

Macera, Javier

This paper describes different ways through which stakeholder engagement can be achieved, highlighting the importance of this participation.

Maintenance of stakeholder engagement

Catchpole, Simon

Stakeholder engagement is necessary for socio-environmental approval of an enterprise, but also for the maintenance of that approval - see the Veladero cyanide release case study.

Meaningful and inclusive stakeholder engagement in areas with a high risk of retaliation

Miller, Angela

This paper focuses on advising companies on how to carry out meaningful stakeholder engagement in areas with a high risk of retaliation.

Virtual technical poster

Online

IA and public participation for geothermal development in Teshikaga, Japan

Shibata, Yuki; Tominaga, Risa

This poster discusses methods for impact assessment of community-driven geothermal development based on a case study in Japan.

Notes

THE ROLE OF LEGISLATION AND POLICY IN BUILDING CONFIDENCE IN IMPACT ASSESSMENT

Advancing impact assessment: Opportunities, methods, and tools

Friday 6 May | 14:00-15:30 | Room 17

Paper session

Chair(s): Thomas Gunton

This session explores new approaches to advance impact assessment processes with respect to assessing impacts to Indigenous communities and protecting Indigenous interests, revising and improving economic impact assessment methods, better supporting public interest determinations, and addressing distributional inequities.

Economic impact assessment: Where we've come from and where we need to go

Joseph, Chris

Economic impact assessment in the past and present, and where it needs to go in the future, drawing on the speaker's experiences as a practitioner in Canada and the U.S.

From reactive to proactive: Metlakatla's Indigenous-led cumulative effects management program

Kwon, Katerina; Wilson, Ross

The Metlakatla Cumulative Effects Management Program was developed to manage impacts on priority values and help the Metlakatla First Nation make informed decisions about major project development.

Assessing the public interest in impact assessment using a multiple account evaluation framework

Gunton, Cameron; Markey, Sean

This presentation introduces a comprehensive multiple account evaluation framework that is designed to transparently inform decision makers of the tradeoffs associated with a proposed project.

The role of impact benefit agreements in environmental assessment

Gunton, Thomas; Batson, Josh; Markey, Sean

The role of impact benefit agreements in mitigating adverse impacts and sharing project benefits with affected communities is assessed.

Are we positive? Is IA prepared to implement positive effects requirements?

Friday 6 May | 14:00-15:30 | Room 11

Panel discussion

Chair(s): Mark Shrimpton, Keith Storey

Canadian impact assessment legislation now includes a requirement that positive effects be assessed. These panel presentations and associated discussion will consider the implications of this change for the conceptualization, practice, and implementation of impact assessment.

Review of the assessment of positive effects

Thompson, Lyle; Sydneysmith, Robin

Summary of an Impact Assessment Agency of Canada-funded study to document examples of the assessment of positive effects to inform policy and improve practice under the Impact Assessment Act.

What does good look like? Setting the stage for positive impacts

Shield, Helga

A key focus of the assessment process should be understanding the potential and desired positive effects of projects, and creating spaces to explore how best to build and amplify these benefits.

Are benefit sharing agreements delivering on community expectations?

Wall, Liz

Has the time come to test whether benefit sharing agreements have delivered upon the expectations of Indigenous communities, so that lessons from the past can inform new agreements?

Best practice principles for the independence of impact assessment reviewers

Friday 6 May | 09:00-10:30 | Room 11

Workshop

Chair(s): Eddie Smyth

This session will discuss a first draft best practice principles publication on the independence of impact assessment reviewers. The session builds on the results of a session at IAIA21 at which it was concluded that lack of independence in IA is a serious issue in IA practice worldwide.

Building confidence in EA through good evidence and practitioner integrity (II)

Thursday 5 May | 14:00-15:30 | Room 12

Theme forum - Panel discussion

Chair(s): George Hegmann

See part I of this session Thursday 5 May | 11:00-12:30 | Ballrooms BC

This panel-based session focuses on how building confidence in project environmental assessment can happen between consulting practitioners and other assessment participants. Here, confidence is of evidence (in provided information), of trust (in those who prepare that information), and of outcomes (from open inclusive engagement).

Agenda-free consultative impact assessment: A key to confidence building

Burack, David

Illustrated examples (2-3) of confidence building from the presenter's 39 years of corporate, government, and NGO consultative experience worldwide.

EIA and corruption: Corrupt practices of EIA practitioners in countries with weak institutions

Issa, Lookman

How corrupt practices of EIA practitioners have marred the EIA process and thus affect its integrity in countries with weak institutions and endemic corruption.

Professional registration for IA practitioners across the globe: The South African story

Hex, Jacqui; Makhudu, Snowy

The paper profiles the progress made on the South African journey towards enhancing professionalism in environmental assessment practice through the regulated registration of EAPs and aims to share lessons learned.

Competencies for impact assessment professionals

Tuttle, Devin

Defining and validating the knowledge, skills, and abilities needed to practice as an impact assessment professional in Canada.

Compliance and enforcement of impact assessment decisions (I)

Thursday 5 May | 14:00-15:30 | Room 18

Paper session

Chair(s): Julie Chace

It is now common for impact assessments to establish legally-binding measures to avoid or mitigate adverse effects. This session will discuss the experience of different jurisdictions in establishing legally-binding, clear, measurable, and enforceable requirements as part of impact assessment decisions, including how jurisdictions undertake compliance activities and enforcement actions.

Risks and realities of implementing regulatory conditions on Design-Build/P3 projects

Ashenhurst, Amber

The risks and reality of implementing meaningful project conditions in real-world construction can break a project. How practical are current best-practice requirements?

Are EIA legislations consistent enough to enforce compliance of IA decisions?

Habineza, Alphonse

Inconsistencies in current Rwandan environmental policies and legislations are the main causes of poor compliance enforcement of IA decisions and low confidence in IA.

Assessing the effectiveness of compliance and enforcement mechanisms for environmentally responsible gold mining in Guyana

Bynoe, Paulette

Despite ongoing efforts aimed at regulating mining activities, for example, through ESIA's, Guyana still faces regulatory and enforcement challenges. The paper analyzes the issues and suggests reforms.

Concurrent sessions

Compliance and enforcement of impact assessment decisions (II)

Thursday 5 May | 16:00-17:30 | Room 18

Paper session

Chair(s): Julie Chace

It is now common for impact assessments to establish legally-binding measures to avoid or mitigate adverse effects. This session will discuss the experience of different jurisdictions in establishing legally-binding, clear, measurable and enforceable requirements as part of impact assessment decisions, including how jurisdictions undertake compliance activities and enforcement actions.

Key environmental auditing effectiveness assumptions: Building confidence

Meyer, Theunis

Key assumptions for environmental auditing effectiveness should be considered in refining post-decision-making good governance principles and best practices and facilitate confidence in EIA.

Mining liabilities in Chile toward a national law

Mesias, Stephanie; De La Fuente, Nataly

Mining activity has boosted worldwide economic, however, the growth in mineral exploitation has generated remnants that continue to impact on the ecosystem even after mining operations are closed.

Don't shoot yourself in the foot: Rethinking environmental management plans

Kurtz, Jayson; Cousins, Autumn

Learn from the experience of major projects in British Columbia to improve environmental management plans as legally binding and enforceable requirements of impact assessments.

Confidence in policies and public involvement: Moving targets? (II)

Thursday 5 May | 11:00-12:30 | Room 12

Theme forum - Paper session

Chair(s): Aaron Goldschmidt

See part I of this session Thursday 5 May | 09:00-10:30 |

Ballrooms BC

Whether intentional or not, IA has been pulled from a third-party, unbiased, science- and community-based practice to a politicized "hot button," resulting in a whiplash effect ranging from implementation of requirements to confidence in the process.

Undermining environmental assessment laws: Post-assessment amendments for mines in British Columbia, Canada, and potential impacts on water resources

Collison, Ben; Westwood, Alana

Mines in British Columbia receive post-assessment amendments, which may increase risks to water resources without meeting the standards of evidence and public scrutiny of the full EA process.

Micro and macro considerations in jointly regulated impact assessments in British Columbia, Canada

Rempel, Jeff

IA themes, such as culture, sustainability, Gender Based Analysis Plus (GBA+), and consideration of the Ecosystem Approach are now, more than ever, deeply woven into IA requirements.

SDGs as sustainability targets in EA:

The consultant perspective

Ravn Boess, Emilia

This paper unfolds how an integration of SDGs in EA builds confidence in the direction of project/plan development and the consultant's 'spaces for action' in implementing SDGs in practice.

First experiences with Canada's 2019 Impact Assessment Act (I)

Friday 6 May | 09:00-10:30 | Room 8

Paper session

Chair(s): Christian Reuten

Few projects have entered the new assessment process under Canada's 2019 Impact Assessment Act, which particularly emphasizes the rights of Indigenous peoples and climate change. Presenters will share first project experiences under the new act with a focus on challenges, lessons learned, and recommendations.

What does "public interest" mean, anyway?

Reviewing guidance and practice in Canada

Westwood, Alana; Winter, Jennifer; Goodday, Victoria

Governments often decide if a proposed project is in the public interest. We found this practice unevenly applied in Canadian law, with consequences for trust in impact assessment.

Impact of the Impact Assessment Act: Port of Vancouver federal land projects

MacLeod, Andrea; Bishop, Chris; McCuaig, Lisa; Neilson, Karen

In 2019 the Vancouver Fraser Port Authority updated its project and environmental review process in light of the new Impact Assessment Act. This paper shares our experience and the outcomes.

Evolving frameworks for sustainability in environmental assessments

Lynch, Sean

A first experience using a sustainability assessment framework compliant with IAA guidelines will be presented, including how digital tools can help identify sustainability objectives.

Where it's at: Post-approval practices under the new federal assessment process

Fitzpatrick, Patricia

This presentation reviews changes to follow-up and monitoring under the new federal assessment process in Canada.

First experiences with Canada's 2019 Impact Assessment Act (II)

Friday 6 May | 11:00-12:30 | Room 8

Paper session

Chair(s): Christian Reuten

Few projects have entered the new assessment process under Canada's 2019 Impact Assessment Act, which particularly emphasizes the rights of Indigenous peoples and climate change. Presenters will share first project experiences under the new act with a focus on challenges, lessons learnt, and recommendations.

Early lessons in holistic inclusion of Indigenous knowledge in impact assessment

Longley, Hereward; Chapman, Jennifer; Calder, Alan

TWC has developed an IK inclusion framework for impact assessment to support reconciliation objectives, UNDRIP implementation, and informed decision-making.

Does Canadian IA regulation meet its global commitment?

Taylor, Timothy

Does Canada's IA legislation(s) live up to its climate commitment?

Tailoring guidelines under Canada's Impact Assessment Act

Moore, Wesley

An overview of the Impact Assessment Agency of Canada's approach to the development of Tailored Impact Statement Guidelines, including project experience to date under the IAA.

First experiences with Canada's 2019 Impact Assessment Act (III)

Friday 6 May | 14:00-15:30 | Room 8

Paper session

Chair(s): Christian Reuten

Few projects have entered the new assessment process under Canada's 2019 Impact Assessment Act, which particularly emphasizes the rights of Indigenous peoples and climate change. Presenters will share first project experiences under the new act with a focus on challenges, lessons learnt, and recommendations.

Integrating GHG emissions into IA:

The Canadian experience

Doelle, Meinhard

The paper considers the Canadian experience under the new IAA in integrating GHG emissions into project level assessments and decision making.

Achieving an effective impact assessment: Perspectives from regulatory and consulting practitioners

Prystay, Ward

Developing a scope of assessment that both the regulator and proponent support can be an important step to an effective impact assessment.

The role of consultation for assessment of transboundary impacts

Stoimenova, Yordanka; Wright, Regina

A presentation on the benefits of consulting with international stakeholders for early consideration of transboundary impacts in project assessments under the Impact Assessment Act.

Strategic assessment of climate change under Canada's 2019 IAA

Reuten, Christian

First experiences with the strategic assessment of climate change from an ongoing provincial/federal impact assessment.

Modern approaches to assess and regulate energy infrastructure projects (I)

Saturday 7 May | 11:00-12:30 | Room 13

Paper session

Chair(s): Genevieve Carr

This session will explore innovations in assessment and regulation of energy infrastructure projects, in the context of expectations and commitments to strengthen and broaden oversight of projects, and in a world that is moving toward a low-carbon future and emerging energy sources.

Implementation of new factors to be considered in an environmental and socio-economic assessment under the Canadian Energy Regulator Act

Randall, Laura; Mulukutla, Usha; Brading, Josh; Brown, Suzanne; Crawford, Barb; McAllister, Kurt

This paper will discuss the opportunities, challenges, and uncertainties related to implementing new factors that need to be considered in an environmental and socio-economic assessment under Canadian Energy Regulator (CER).

Canada Energy Regulator: A lifecycle approach to contamination remediation

Houston, Adele; Dods, Patti; Kingston, Holly; Mulukutla, Usha; Pauzé, Marc

This paper will discuss remediation of contamination from project application through abandonment, the CER's recent guidance updates related to contamination, and regulatory challenges.

Sites of Indigenous significance: Protecting Indigenous interests

Eagles, Kathryn; Pauzé, Marc

This paper presents sites of Indigenous significance as an important advancement in regulatory oversight of energy projects, including impact assessments.

A new perspective: Standards and impact assessments

Niksirat, Pantea

Review of a modern consensus-based approach to adopt standards that lead to increased commitments and broadened oversight.

Prior work of environmental impact assessment in power lines projects

Prince, Annie

Exploration of solutions to integrate natural and human considerations at the electrical grid planning stage to reduce the impacts and improve the social acceptability of power lines projects.

Modern approaches to assess and regulate energy infrastructure projects (II)

Saturday 7 May | 14:00-15:30 | Room 13

Paper session

Chair(s): Genevieve Carr

This session will explore innovations in assessment and regulation of energy infrastructure projects, in the context of expectations and commitments to strengthen and broaden oversight of projects, and in a world that is moving toward a low-carbon future and emerging energy sources.

Environmental assessment of energy supply solutions on Magdalen Islands, Gulf of St. Lawrence

Tremblay, François

Evaluation of electricity sources for the Magdalen Islands archipelago, integrating social and environmental acceptability, including GHG emissions, was initiated upstream of any energy infrastructure.

Countering anti-reflexivity in impact assessment: The case of Muskrat Falls

Atlin, Cole; Stoddart, Mark

The case of Muskrat Falls hydro-electric illustrates how anti-reflexivity generates an assumed aura of inevitability in political and public discourse and illuminates the important role of IA.

Mine closure planning in Colombia: Anticipating regional, post-coal futures

Gregory, Gillian; Peña, Rosa Estefanía

We illustrate recent, collaborative, cross-sectoral work to anticipate and plan for the socioeconomic effects of thermal coal mine closure in northern Colombia.

Identifying issues of solar power generation projects through analysis of environmental impact assessment statements

Kim, Yoonji

This study assessed the issues of photovoltaic power generation projects in South Korea and addressed future direction to be taken to resolve such issues.

Solar energy production in Spain: A case study of the new land use

Casermeiro, Miguel Ángel; Ezquerro, Alejandra; Quintana,

José Ramón; García, Andrea; Molina, José Antonio;

Contreras, Rosario

Nowadays, the intensive installation of large solar photovoltaic facilities in Spain will generate global changes in traditional land use and unexpected environmental impacts.

Planning early for next generation IA: Lessons from BC, Canada, and beyond

Friday 6 May | 14:00-15:30 | Room 12

Paper session

Chair(s): Anna Johnston, John Sinclair

We know that early initiation and planning of impact assessment can lead to better results and greater buy-in, but how? This session explores best practice in early planning, and experience to date from Canada and beyond.

Meaningful participation in early planning: observations from Canada

Johnston, Anna; Sinclair, John

This paper will explore best practices on meaningful public engagement in early IA planning, and compare those principles to experience under BC and Canada's new processes.

Planning early for roads and regional assessment in the Ring of Fire, Ontario

Chetkiewicz, Cheryl; Ray, Justina

We consider early planning experiences such as engagement, timelines, and responses to issues raised for road projects and the regional assessment of the Ring of Fire.

Early engagement and effective consensus-seeking under the BC Environmental Assessment Act (2018)

St. James, Katherine

This presentation provides an approach to describing how early engagement brings confidence to EAs through meaningful conversations and consultation with Indigenous nations.

Assessing Canada's first propane export terminal: Lessons in collaboration and early planning from the lead regulator and the proponent

Seagel, Tobin; Smith, Jack

Three years post-commissioning, the regulator and proponent for Canada's first propane export terminal discussed what worked and what could have been improved in planning for this groundbreaking project.

Shades of green: Improving the language describing disturbed sites

Hubert, Chuck

Better language is needed to describe "brownfield" sites that are healing. Early engagement can assist proponents in identifying uses of disturbed sites when considering project siting alternatives.

Supporting proponents in preparation for the impact assessment process

Anderson, Conor

The Impact Assessment Agency of Canada discusses how it supports project proponents in "pre-planning" to support an effective planning phase under the Impact Assessment Act.

Socio-economic and environmental assessments for modernized land use plans

Friday 6 May | 09:00-10:30 | Room 12

Panel discussion

Chair(s): Kelly Sims

This panel will reflect the different practical, partnership, theoretical, socio-cultural, and applied views in undertaking socio-economic and environmental assessments (SEEs) in the modern BC context of land use planning. Be prepared for a lively discussion on the gaps, hopes and challenges facing those undertaking SEEs in BC.

The policy and guidance given to socio-economic and environmental assessments for land use planning

Atleo, Tara

MSc Resource Stewardship Economist - BC Public Service

Socio-cultural element to land use planning and its challenges in application

Bridge, Gwen

Incorporating Indigenous socio-cultural impacts analysis methodologies requires a deeper understanding of the Indigenous decision making and legal orders related to interactions with the earth.

The practitioner's approach to land use planning

Hardy, Ruth

Hemmera Envirochem. Areas of expertise: land and resource use planning and environmental assessment practitioner.

The theoretical approach to elements of modernized land use planning

Nikolakis, William

Land use planning is today more participatory and includes diverse voices. This presentation covers the methods and strategies to address conflict and to deal with trade-offs in land use planning.

The partnership approach to land use planning

Curtis, Ian

MSc, RPBio Land and Resource Specialist Ministry of Forests, Lands, Natural Resource Operations, and Rural Development

The 50th anniversary of NEPA: Lessons learned and future challenges

Friday 6 May | 16:00-17:30 | Room 8

Panel discussion

Chair(s): Michael Smith

This session will be part celebration of the world's first environmental impact assessment law, and part critical examination of the National Environmental Policy Act's (NEPA) 50-year history, accomplishments, challenges, and opportunities for the future.

NEPA beyond 50: EIA for renewable infrastructure investment

Boling, Edward

This paper will evaluate the role of the Council on Environmental Quality, the Permitting Council, and agency leadership in delivering environmental review of renewable energy infrastructure projects.

50th Anniversary of NEPA: Summary of influential U.S. court decisions

Hudson, P.E. "Pam"

The important role of U.S. federal courts in the evolution of the NEPA over time will be addressed, including a summary of influential decisions, several issued by the Supreme Court and recent U.S. Courts of Appeals decisions.

REGIONAL AND STRATEGIC IMPACT ASSESSMENTS: MOVING FROM THEORY TO PRACTICE AND FILLING THE DATA GAP

Good practices of tiering SEA and EIA: How to make it happen?

Thursday 5 May | 16:00-17:30 | Room 16

Paper session

Chair(s): Jos Arts

In this session we will discuss the notion of tiering in IA and planning, the various dimensions related to tiering and good practices in tiering, and how to make it happen. How tiering contributes to the overall confidence in planning/IA systems.

Tiering: Are we asking the right question?

Hiraga, Eri; Cumming, Katherine

While tiering SEAs with project EIA is important, it is incomplete. SEAs of national park management plans link with a suite of tools to manage and mitigate cumulative effects.

Scoping in a complex world: an appeal for a broad focus? Lessons learned from the Netherlands

Vos, Gisa; Eijssen, Paul; Koedijk, Hanneke

Scoping in a complex world—urging for more integration of social/economic themes? Scoping process in the Netherlands from a higher level of abstraction (SEA) to the project level (EIA).

Local tiering in the U.S.: Lessons learned in New York State and New York City

Liebowitz, Peter

The presentation will look at local and state applications of EIA tiering in the U.S. by using examples from New York State.

A matter of scale: Exploring tiering in the case of Rail Baltic HSR

Kalle, Heikki; Faith-Ell, Charlotta; Arts, Jos

This paper explores success factors of tiering related to the spatial scale by discussing the high-speed rail case in Estonia to facilitate the development of best practice EA tiering.

Concurrent sessions

Regional assessments: Objectives, approaches, and lessons from practice

Wednesday 4 May | 15:00-16:30 | Room 8

Paper session

Chair(s): Steve Bonnell

We explore the various objectives, approaches, outcomes, and uses of regional assessments and associated initiatives, including experiences and lessons from recent practice.

St. Lawrence River Regional Assessment: Planning with Indigenous partners

Montour, Ross; Ragaz, Patrick; Walsh, Francis; Stapleton, Erin; Sanschagrin, Turcotte, Isabelle; Bélec, Jacinthe; Devin, Sarah; Provençal-Vincent, Laurence; Mugemana, Domitien

An overview of the engagement outcomes and lessons learned to date for the St. Lawrence River Regional Assessment, highlighting how engagement with Indigenous peoples informs the planning process.

Assessing regional cumulative effects of marine shipping in the Northern Shelf Bioregion, Canada

Doucette, Paula; Pittman, Janine

Using a collaborative approach for a regional cumulative effects assessment of marine shipping activities in the Northern Shelf Bioregion, British Columbia, Canada.

Enabling assessment and management of watershed cumulative effects

Courtenay, Simon; Munkittrick, Kelly; Hitchman, Katrina; Greig, Lorne

The paper examines the contributions of the Canadian Watershed Research Consortium to facilitating monitoring in support of cumulative effects assessments at regional and watershed scales.

Strategic environmental and social assessment of regional land-use plans

Waaub, Jean-Philippe; Côté, Gilles; Guay, Jean-François

A strategic environmental and social assessment process of regional land-use plans is designed using an issue-based approach and a multi-criteria and multi-actor decision support method.

Addressing the inherent complexity of cumulative effects analysis in SEA

Cumming, Katherine; Hiraga, Eri

The complexity of analyzing cumulative effects in SEA is often a challenge with limited resources. SEAs of national park management plans use systematic prioritization to focus analysis.

PARTNERSHIPS IN UNLIKELY PLACES: HOW NEW RELATIONSHIPS ARE TRANSFORMING PROJECTS

Impact assessment: Fostering partnerships for green resilient development

Friday 6 May | 16:00-17:30 | Room 16

Pecha Kucha

Chair(s): Mokshana Wijeyeratne, Neha (Vyas) Mishra

IAIA Section: Biodiversity and Ecology

What kind of possibilities open up when IA is used for promoting green and resilient development? What role do partnerships have in this? The session will bring together global experience that highlights success stories and lessons learned and will make recommendations for promoting stronger partnerships that make IAs more effective.

Reinforcing green and resilient recovery using ESF

Tuyor, Josefo; Zakharenka, Andrew

The presentation will summarize World Bank Group's framework for supporting green, resilient, and inclusive development (GRID) using the Environment and Social Framework (ESF).

Uptake of practice guidance for GRI

Rajvanshi, Asha; Mathur, Vinod

Story about how partnerships among key development players in India on producing a guidance document for mainstreaming biodiversity in the planning of GI projects led to its successful uptake.

IA unfolding a green and resilient roads program

Mishra, Neha (Vyas)

Success, learning, innovation, and opportunities for green and resilient development unfolded by a robust IA process: case of roads and highways sector of India.

Why urban ecosystem conservation matters for sustainable urban policy

Rajapakse, Nadeera

The presentation traverses the birth of the Colombo wetland management strategy, and integrating natural process with urbanization to build inclusive and resilient cities.

The Vandhoo turtles: When biodiversity conservation meets environmental management

Wijeyeratne, Mokshana; Zuhair, Ahmed Hassaan

The birth of the Vandhoo regional waste management facilities, Turtle Management Plan (TMPs), a collaborative modal for marine biodiversity conservation in the Maldives.

Leadership in IA is strategic for increased confidence

Friday 6 May | 11:00-12:30 | Room 17

Panel discussion

Chair(s): Ross Marshall, Maria Partidario

The key to all successful IA partnerships is trust. Strong IA leaders build confidence, trust, and cooperation through external and internal stakeholder networks. We will examine how IA professionals harness their leadership skills to bring forward sustainable solutions. IA leadership extends the IA process into tangible outcomes.

Are you an EIA manager or leader?

Marshall, Ross

How you lead an EIA is often a matter of mindset. Examining a number of critical leadership traits.

Marla Orenstein, President of IAIA

Amy Avila

Amy has worked with the Indigenous Implementation Committee and directly with nations across BC to develop policies to support the new Environmental Assessment Act (2018).

More collaboration...better results (I)

Thursday 5 May | 09:00-10:30 | Room 13

Paper session

Chair(s): Susana Rosa

Collaboration has become more and more the way to achieve better results. Having as common interest overcoming biodiversity and ecosystem services challenges, presenters inspire by sharing their experiences where a meaningful collaboration made the difference in environmental assessment.

Shifts in resource management:

Collaboration on cumulative effects

Coccola, Carley; Paul, Maya

Collaborative initiatives are helping to shift the understanding and appreciation of First Nations roles in resource management and decision making.

Impact assessment and just sustainability transition: Exploring intersections

Majekolagbe, Adebayo

This paper considers how IA could be used to ensure that sustainability transition initiatives support wellbeing, particularly, the wellbeing of the most vulnerable.

How collaboration supports Indigenous priorities and advances projects

Harlos, Erin

In this presentation, the port authority will provide insight into how it collaborates with Indigenous groups to advance mutually beneficial projects that are reflective of Indigenous priorities.

Biodiversity assessment is a team sport, and we need more players!

Mayhew, Melissa; Hanner, Robert; Laye, Evan; Bears, Heather; Thorne, Toby

Case study of early planning for a biodiversity and ecosystem services assessment. Novel collaborations are one way the proponent is applying credible science in service of good decision making.

More collaboration...better results (II)

Thursday 5 May | 11:00-12:30 | Room 13

Paper session

Chair(s): Susana Rosa

Collaboration has become more and more the way to achieve better results. Having as common interest overcoming biodiversity and ecosystem services challenges, presenters inspire by sharing their experiences where a meaningful collaboration made the difference in environmental assessment.

Sharing stewardship: A model of collaboration for environmental assessment between the Government of Canada and the Cree Nation Government

Guth, Erica; Lalande, Véronique

A presentation on the collaboration in the implementation of an agreement between the Government of Canada and the Cree Nation Government for environmental assessments.

Indigenous partnerships support first wolverine study for an Ontario EA

Pleizier, Jonathan; Brooks, Angela

Integrated motion-detection cameras and hair snags were used to characterize baseline wolverine (*Gulo gulo*) occurrence in support of the Webequie Supply Road EA, an Indigenous-led all season road.

Mapping biodiversity patterns for environmental impact assessments (EIA) using remote sensing

Pérez Chaves, Pablo

It is possible to map biodiversity patterns for EIAs at local scales by combining biological field data, satellite images, and machine learning.

Online IA processes for sustainable development: Building relationships and collaboration

Friday 6 May | 11:00-12:30 | Room 18

Paper session

Chair(s): Justine Knox

IAIA Section: Social impact assessment

The COVID lockdown measures accelerated moves to online work delivery of all aspects of IA practice, including implementing, teaching, and training of IA. What are the consequences of this for relationships and sustainability outcomes? Papers explore the effectiveness of online IA processes, practices, and teaching.

Digital EIA: Delivering more effective, efficient, engaging assessments

Usher, Robyn; Kemble, Katy; Dyche, Douglas

Exploring digital transformation of environmental assessments and how it can drive improvements for transparency, participation, and ease of regulatory review.

Encouraging participation through ethical data collection and digitalization

Cousins, Debbie; Penny, Claire; Sexton, Amy

Ethical ESG data collection principals are essential in the digital world to provide safe pathways to collect information and encourage increased participation.

The Marine Local Ecological Footprinting Tool

Long, Peter

Marine LEFT is a web-based environmental decision support tool which provides data on patterns of biodiversity in the marine environment

Community participation and the assessment of land-use cover change drivers: A case of the Mphaphuli community in South Africa

Musetsho, Khangwelo Desmond; Chitakira, Munyaradzi

Impact assessment processes and instruments evolve, but the science, wisdom, and participation of communities is always priceless. This paper links GIS/remote sensing with citizen science.

Wetlands classification guide to improve confidence in impact assessment

Knox, Justine; Wright, Nicole; Rudolph, Brooke

The KPMA Wetland Classification Guide provides a case study on how collaborative efforts to develop practical online educational materials can improve confidence in new impact assessment requirements.

INDIGENOUS KNOWLEDGE, LOCAL KNOWLEDGE, AND WESTERN SCIENCE/ EMERGING TECHNOLOGIES

Indigenous knowledge in impact assessment: International case studies

Thursday 5 May | 09:00-10:30 | Room 11

Panel discussion

Chair(s): Michel Berube

Impact assessment legislation and policy around the world is increasingly incorporating expanded requirements related to Indigenous knowledge (IK). This session will provide an opportunity to share best practices, lessons learned, challenges, and opportunities related to the braiding of IK and western science through case studies.

Integrating Inuit experience of climate change with historical scientific records

Bizhani, Golnoosh; Reuten, Christian

Inuit experience of climate change showed good agreement with scientific data while adding substantial value to the characterization of climate change.

Unfinished conversations: Honoring Indigenous relationships and knowledges in IA

Broomfield, Sage; Paynter, Elder Florence; Pastora Sala, Joëlle; Fitzpatrick, Patricia

A respected Elder, a lawyer, a student, and an academic consider expectations of IA, including purpose, process, and substance, to build respectful, meaningful decision making.

Integration of Traditional knowledge: Perspectives from Arctic Canada

Mullard, Zoe; Quesnel, Jamie; Lower, Nicola; Buchan, Alex

This session will explore practical examples of working with knowledge holders in respectful and collaborative ways through the impact assessment process in Arctic Canada.

Limitations of participation in environmental impact assessment in Ghana as a transferred policy tool

Asante-Addai, Aaron

Confidence in impact assessment could draw from incorporating Indigenous knowledge, concepts, and practices into policies and regulations to build trust and enrich participation.

Traditional Knowledge to increase climate resilience of native villages

Wilcock, Ronni; Sypniewski, Jaimlyn

The ICARIS process empowers vulnerable native communities to move from reactive to proactive climate-resilient strategies based on the goals and objectives specific to their village.

Integrating intangible and spiritual values in impact assessment

Saturday 7 May | 11:00-12:30 | Room 18

Panel discussion

Chair(s): Angeles Mendoza Sammet, Eric Gagnon

IAIA Section: Indigenous Peoples

In this session we will explore practices, tools, and ideas to assess impacts on intangible values and to mitigate impacts on them. Protecting the cultural rights of communities and addressing the loss of cultural diversity are some reasons to improve the assessment of impacts on intangible and spiritual values.

Integrating intangible and spiritual values in IA

Gagnon, Eric

Learning from traditional medicine and spiritual beliefs to transform impact assessment.

Angeles Mendoza Sammet

Practitioners need to reflect on how to transform impact assessment to better analyze and mitigate impacts on intangible cultural and spiritual values.

Concurrent sessions

Intangibles: The underappreciated aspects of development

Sanda, Ahmed

Reliant on sustainable development principles, the paper seeks to explore the under-appreciation of aspects of spirituality in our quests for development using IA tools.

St. Lawrence cultures and nations: A co-construction approach for better socio-cultural assessments

Lavoie, Roxane; Phillips, Morgan Kahentonni; Guillemette, Catherine; Rancourt, Isabelle; Dumais-Dubé, Alexandre
A team of researchers from Laval University and representatives from communities of 5 First Nations in Quebec co-create an innovative approach to assess socio-cultural cumulative effects of marine vessel activities.

Safeguarding Indigenous coastal communities and marine environments

Wednesday 4 May | 15:00-16:30 | Room 11

Caravan

Chair(s): Laura Jokinen, Christa Meuter

Come with us on a journey to discover how one First Nation in British Columbia (Canada), Gitga'at First Nation, has implemented innovative approaches to identify, assess and manage environmental, social, and health risks related to ongoing industrial development, tourism, and recreation in their territory.

State-Indigenous processes that advance FPIC requirements under UNDRIP

Thursday 5 May | 11:00-12:30 | Room 11

Panel discussion

Chair(s): Angel Ransom, Trefor Smith

IAIA Section: Indigenous Peoples

This session will explore the challenges and opportunities of emerging IA processes that seek to redesign and/or repurpose existing IA processes for the purpose of reconciling the rights and interests of Indigenous peoples and states in respect to proposed major projects.

Impact Assessment Agency of Canada practices in implementation of the UNDRIP

Reynolds, Valancy

Approaches, experiences and early results of the Impact Assessment Agency of Canada in implementing the United National Declaration on the Rights of Indigenous Peoples (UNDRIP) in the field of impact assessment.

Indigenous-led impact assessment: Opportunities and challenges for meaningful input and consent in project-based assessments

Nishima-Miller, Jeff; Hanna, Kevin

This talk will describe approaches to Indigenous-led impact assessment that have been designed as an assertion of rights to free, prior, and informed decision-making by Indigenous communities.

TWN perspective on the interpretation and implementation of UNDRIP

Walker, Melanie

TWN perspective on the interpretation and implementation of UNDRIP.

Challenges and opportunities in emerging models for collaborative Indigenous-crown impact assessment

Smith, Trefor

This paper explores challenges and opportunities in new, emerging "nation-to-nation" arrangements designed to enable meaningful Indigenous collaboration in Canada's new impact assessment process.

MEANINGFUL CONSULTATION: ADVANCING INDIGENOUS GOVERNANCE AND PARTICIPATION

Trauma-informed impact assessment

Friday 6 May | 09:00-10:30 | Room 13

Workshop

Chair(s): Desiree Theriault, Heather Webb

This dynamic workshop invites participants into a conversation on trauma and what it means to be trauma-informed in our work as impact assessment professionals. Participants will gain an understanding of the impacts of trauma, why impact assessment professionals should be trauma-informed, and guidance on incorporating trauma-informed principles into everyday interactions.

SUPPORTING HUMAN AND COMMUNITY WELL-BEING THROUGH EFFECTIVE PARTICIPATION

Building confidence in IA results by using participatory approaches (II)

Thursday 5 May | 16:00-17:30 | Room 12

Theme forum - Panel discussion

Chair(s): Victoria Griffiths, Mark Barnett

See part I of this session Thursday 5 May | 14:00-15:30 | Ballrooms BC

Putting local people at the center of an evaluation by using participatory approaches will not only improve the quality of an impact assessment but will increase confidence in its results. This session aims to explore how novel participatory approaches are used in practice, drawing on experiences, insight, and hindsight.

Confidence, coordination, cooperation: cornerstones of social capital

Fernández-Dávila, Gabriela

Based on a Peruvian case, this paper analyzes the concept of confidence in the construction of social capital and presents guidelines to generate good evidence for the strengthening of confidence.

LNG Canada's CLISMP program implementation: A work in progress

Bohlken, Frank; Arvanitidis, Nina

Overview of the lessons learned to date from the implementation of LNG Canada's CLISMP plan: a comprehensive socio-community monitoring program for a major industrial development project.

Health and safety is our everyday: Outcomes of community-led Indigenous HIA

Friday 6 May | 16:00-17:30 | Room 17

Panel discussion

Chair(s): Janis Shandro

This session will present the work Kitselas First Nation has accomplished as part of community-led HIA. Evidence on how identifying health risks and impacts can influence positive outcomes, improve understanding between proponents and communities, and strengthen relationships will be provided. Kitselas has over 20 industrial projects affecting its People.

Kitselas community wellbeing initiative

Kelly, Susan

Executive Director, Community and Social Innovation Branch, Ministry of Indigenous Relations and Reconciliation

Jill Salus

(MBA, BComm) Manager of Indigenous Relations Engagement for Coastal GasLink. Jill joined TC Energy in 2018 and has had the opportunity to work with Indigenous communities since 2012.

Health and safety is our everyday

McDames Jr., Ken

Emergency Response Manager, Newly Elected Councillor, Kitselas First Nation

Health impact assessment: Key topics and new direction for inclusion in handbook

Thursday 5 May | 16:00-17:30 | Room 11

World Café

Chair(s): Francesca Viliani

The editors of a handbook on HIA will set out, and invite comment on, the outline for the handbook itself. Through the discussion and audience interaction we will scrutinize what key topics and new directions should be included to ensure that the handbook remains relevant for the next 10-20 years.

AGRICULTURE, FORESTRY, AND FISHERIES

AFF Section's past, present, and future to reboot for enhanced application

Thursday 5 May | 14:00-15:30 | Room 11

Workshop

Chair(s): Patrick Duffy; Pacey, Ann

IAIA Section: Agriculture, Forestry and Fisheries

This workshop will review progress on the application of ESIA to agriculture, forestry, and fisheries with a view to expanding the initiative launched 17 years ago. Success stories, gaps, and shortcomings will be featured to remove barriers to a wider application of the ESIA model.

COMMUNITY ENGAGEMENT

Gender lens refocused: A deeper look at inclusion in impact assessments

Thursday 5 May | 14:00-15:30 | Room 17

Panel discussion

Chair(s): Heather Horsefall

While gender equality is a critical component of IA, implementing gender analysis is often considered a complex undertaking. To overcome this challenge, Oxfam leads in developing effective methodologies for applying an intersectional gender lens in community-based HRIA. This session gives partners the floor to share experiences.

Integrating an Indigenous lens within gender impact assessments

Davis-Alphonse, Chastity

How to integrate and ensure an Indigenous gender-based analysis for impact assessments in Canadian context—what are the opportunities and challenges thus far.

Gender impact assessments for projects and policies related to artisanal and small-scale mining

Cote, Gisele Eva

This presentation will focus on IMPACT's toolkit on how to integrate gender and human rights into minerals sector initiatives, from projects and programs to policy.

Women's voices and experiences in the face of large-scale mining

Clements, Micheel

The gendered impacts of mining are real and well documented, but the impacts of the end of the mining cycle are likewise experienced differently by women.

INDIGENOUS PEOPLES

Impact of development on Indigenous community-conserved areas (I)

Friday 6 May | 14:00-15:30 | Room 13

Paper session

Chair(s): Julian Inglis, Soudeh Jamshidian

IAIA Section: Indigenous Peoples

Indigenous and Community Conserved Areas (ICCAs) are conservation sites governed by Indigenous and local communities. Presentations range from Canadian to global overviews of social and environmental issues impacting ICCAs. Case studies consider how development projects and other activities are affecting ICCAs, with proposed prevention and mitigation measures to protect them.

Challenges in assessing social impacts on ICCAs: A Central Asia gold mine

Berkes, Fikret

As "territories of life," ICCAs have social and economic values for local people. The case of Kumtor Gold Mine, Kyrgyzstan, illustrates some of the considerations in assessing impacts.

Traditional communities and the welfare of cranes in Iran, Bhutan, Tibet, Turkey, and Russia

Archibald, George

Cranes are admired, respected, and held as sacred in several traditional cultures, which encourages protection of the birds and their landscapes, with examples in Iran, Bhutan, Tibet, Turkey, and Russia.

First Peoples first: Past time for a new approach in the global extractives industry

Hilditch, Tom; Angarova, Galina

We need to move traditional approaches to understanding and integrating Indigenous knowledge into EA processes. This presentation will explore the role of truth, authenticity, and respect in EA.

Impact of development on Indigenous community-conserved areas (II)

Friday 6 May | 16:00-17:30 | Room 13

Paper session

Chair(s): Julian Inglis, Soudeh Jamshidian

IAIA Section: Indigenous Peoples

Indigenous and Community Conserved Areas (ICCAs) are conservation sites governed by Indigenous and local communities. Presentations range from Canadian to global overviews of social and environmental issues impacting ICCAs. Case studies consider how development projects and other activities are affecting ICCAs, with proposed prevention and mitigation measures to protect them.

The customary water management system of Barfandil

Esteghamat, Mina; Rajaei, Ehsan

"Barfandil" is a customary management system of water in Kormanj tribal territory to provide drinking water for the community and livestock during the summer and unexpected droughts.

Community-based forest governance and livelihoods: Umuatulu-Umueri community, Nigeria case study

Chinweze, Chizoba

The decision-making powers of the Umuatulu-Umueri community, the study area, rose against attempts of siting an oil and gas facility in their forest area, due to the envisaged impacts of such project.

Protection of wild animals or human beings?

Kyokuhaire Muchwampaka, Anne; Kibabazi, Adrine;

Muchwampaka, Ruth; Ogwang, Tom

Development projects affects Indigenous peoples in various ways by rendering them landless and losing their livelihoods. A glance at the conflict between Uganda Wild Life Authority and the Indigenous people over natural resources access and management.

Cedar, salmon, and ICCAs: A 10,000-year odyssey

Inglis, Julian

ICCAs signal the direction First Nations on Haida Gwaii and Clayoquot Sound take to regain control of their territories and provide for their communities through the land claims process.

Manito Aki Inakonigaawin and the Harmonized Impact Assessment Model

Saturday 7 May | 09:00-10:30 | Room 18

Panel discussion

Chair(s): George Kakeway

This session invites participants to learn about the Manito Aki Inakonigaawin and its implementation in the Anishinaabeg Nations of Treaty #3. Participants will examine how the Harmonized Impact Assessment model successfully integrates western science with Anishinaabe knowledge and stewardship practices.

Manito Aki Inakonigaawin: History and overview

Kakeway, George

Come learn about the history of the Manito Aki Inakonigaawin (the Great Earth Law).

Manito Aki Inakonigaawin: Treaty rights and application

King, Lucas

Application of the Manito Aki Inakonigaawin to successful partnerships in Treaty #3 Territory.

Manito Aki Inakonigaawin: The Highway 17 Project

Sadiq, Somalia

Application of the Manito Aki Inakonigaawin to the Twinning of the TransCanada highway and creation of an Indigenous-led award-winning model for impact assessment.

Concurrent sessions

Participation, partnership and impact assessment: Tools and practice for better outcomes

Saturday 7 May | 09:00-10:30 | Room 12

Panel discussion

Chair(s): Victoria Marquez Mees

Participatory impact assessment processes are a key ingredient of sustainable and viable projects, but even more so when Indigenous communities are involved. The discussion will focus on good and bad practices to date and propose a new paradigm of engagement.

New! An IP participation and partnership paradigm

Guldin, Greg

Moving beyond participation to partnership in impact assessment and implementation, the Indigenous Peoples Participation and Partnership Paradigm details a strategy to achieve social license and FPIC.

Participatory processes for Indigenous Peoples

Martinez, Juan

Participatory impact assessment processes are a key for designing projects in a culturally appropriate manner that promotes long-term sustainability of indigenous peoples development

Maniksaq Baumgartner

Perspectives on the experience of Indigenous communities in resource development and impact assessment, drawn from Shell's Arctic exploration venture in Alaska.

Including the voices of Indigenous Peoples matters

Repetto, Andrea

From the work of the Independent Consultation and Investigation Mechanism (MICI) in Latin America and the Caribbean, reflections on the importance of having Indigenous Peoples' voices in the IA process.

Working with Indigenous community to create confidence in projects

Friday 6 May | 11:00-12:30 | Room 13

Panel discussion

Chair(s): Margaret Scott, Geetha Ramesh

IAIA Section: Indigenous Peoples

This session aims to bring Indigenous Nation leaders and IA practitioners together to compare and contrast approaches to improving project design development through involving Indigenous Nations as part of the development team or supporting independent impact assessments.

Building confidence through consistent and meaningful consultation and delivering on commitments

Wilson, Candice; Ross, Tracey

As the stewards of their territory, Haisla Nation Council has consulted with proponents on mega oil and gas projects. Haisla Nation will share their experience and lessons learned to build confidence.

Confidence built from keeping commitments and maintaining respectful communication

Lepine, Melody

As the keepers of tradition and drivers of change of their territory, MCFN has consulted with proponents on mega oil and gas projects. MCFN will share their experience and lessons learned.

PUBLIC PARTICIPATION

Achieving more meaningful public participation in impact assessment (I)

Friday 6 May | 09:00-10:30 | Room 16

Paper session

Chair(s): Jeremy Freeman

IAIA Section: Public participation

Public participation is a cornerstone of IA. In this session we will explore next-generation advancements that encourage more meaningful participatory practices as recognized by the public, proponents, practitioners, and academics.

Impact assessment at-a-glance: Process booklets for a wide audience

Freeman, Jeremy

Lessons learned from the creation of simplified EIA process booklets. Touches on how the best way to have meaningful public participation is through better understanding of a complex process.

Better explain environmental and social impact assessment for a better public participation

Hébert, Jean

AQÉI launched a study which combine ESIA and scientific vulgarization expertise to propose a new set of communication activities and a new model of ESIA summary report dedicated to the public.

Public participation in IA: Experiences from Nepal

Dahal, Milan

Experiences from Nepal regarding public participation in the impact assessment conclude that achieving meaningful consultation is a journey without a finish line.

Achieving more meaningful public participation in impact assessment (II)

Friday 6 May | 11:00-12:30 | Room 16

Paper session

Chair(s): Jeremy Freeman

IAIA Section: Public participation

Public participation is a cornerstone of IA. In this session we will explore next-generation advancements that encourage more meaningful participatory practices as recognized by the public, proponents, practitioners, and academics.

Driving confidence with digital engagement: Analytics and best practices

Solaun, Leticia; McDonald, Kristen

Analytics from digital engagement for multi-sector projects indicate that immersive virtual platforms result in more meaningful engagement than traditional platforms.

From digital reporting to digital platform with digital participation

Koedijk, Hanneke; Eijssen, Paul; Vos, Gisa

Digital EIA today is more than digital reporting. A digital platform actively involves stakeholders through digital participation. We offer you an overview of the current possibilities.

Engaging virtually and meaningfully with diverse groups

Lower, Nicola; Quesnel, Jamie; Mullard, Zoe; Lacourse, Sophie

This session will explore emerging technology and practices for virtual communication and digital technology to support meaningful community engagement.

Achieving more meaningful public participation in impact assessment (III)

Friday 6 May | 14:00-15:30 | Room 16

Paper session

Chair(s): Jeremy Freeman

IAIA Section: Public participation

Public participation is a cornerstone of IA. In this session we will explore next-generation advancements that encourage more meaningful participatory practices as recognized by the public, proponents, practitioners, and academics.

Improving engagement and consultation in the NWT

Elsasser, Sarah

After almost a decade of experience with a progressive engagement and consultation policy, the regulatory boards of the Mackenzie Valley are working toward an updated and improved policy.

Public participation and involvement in the EIAs for Uganda's manufacturing, oil, and gas sectors

Edema George, Taako; Karatu, Kiemo

Good provisions for public participation and involvement in the EIA legal and regulatory framework does not guarantee effective and meaningful participation and involvement in the EIA.

Improving public engagement in Latin American impact assessments

Evans, Julie; Vasquez, Juan Carlos

Analysis and discussion of best practices to bridge gaps in Latin American legislation to achieve truly meaningful community engagement in environmental impact assessments.

Finding meaning in public participation:

The Mary River Project EA

Hanson Main, Amanda; Inuarak, Enookie; Ootoovak, Eric

The Mary River EA serves as a case study for public engagement; the authors consider "meaningful" participation through the lens of impact assessment practitioners and affected rights holders.

STRATEGIC ENVIRONMENTAL ASSESSMENT

Asian S3EA: Strategic, Spatial, and Sustainable EA (I)

Friday 6 May | 14:00-15:30 | Room 18

Paper session

Chair(s): Justin Bedard

The advancement of remote sensing technology and information technology, spatial analysis with a variety of environmental, social and economic items, received big attention. This session will focus on IA examples which support strategic decision making including SEA and utilize the well-organized spatial scale analysis for achieving SD in Asian regions.

Conserving the Sundarbans World Heritage Site: The case of the SEA of SW Bangladesh and the Sundarbans

Dalal-Clayton, Barry

An SEA of SW Bangladesh and the Sundarbans focused on rapid industrial and other development and its potential to undermine the conservation of the Sundarbans World Heritage Site.

Possibility and challenges on revised national strategy against climate change

Murayama, Takehiko

This paper will discuss the possibility to promote more suitable constructions of renewable energy facilities and the challenges in Japan.

The implications of COVID-19 pandemic through impact on sustainable waste management:

Case study in Nan municipality, Thailand

Niyommaneerat, Wilailuk; Suwanteep, Kultip

Comparative study between pre and post-COVID 19 situations which affect the sustainable waste management in Nan municipality.

New remote technologies for SEA in Asia:

Maritime heritage and beyond

Bedard, Justin; Myers, Emlen

The continued growth of offshore wind energy in Asia presents the need and opportunity for incorporating maritime heritage and advancements in marine remote sensing technologies into SEAs.

How does air pollution affect urban livability? Focusing on coastal cities in China, South Korea, and Japan

Jun, Sunmin; Li, Mengying; Jung, Juchul; Kamata, Yoko; Kang, Jungeun

In this study, we analyzed the effect of vulnerability to air pollution on livability in coastal cities in China, South Korea, and Japan.

Asian S3EA: Strategic, Spatial, and Sustainable EA (II)

Friday 6 May | 16:00-17:30 | Room 18

Paper session

Chair(s): Justin Bedard

The advancement of remote sensing technology and information technology, spatial analysis with a variety of environmental, social and economic items, received big attention. This session will focus on IA examples which support strategic decision making including SEA and utilize the well-organized spatial scale analysis for achieving SD in Asian regions.

Enhancing local capability for developing low carbon tourism in Thailand: Nan province as case study

Suwanteep, Kultip; Niyommaneerat, Wilailuk

The Global Sustainable Tourism Criteria Destination (GSTC-D) and Social Return on Investment (SROI) are proposed indicators to assess low carbon tourism for sustainability in travel and tourism.

Factors of residents' attitude to Solar-PV projects

Nishikizawa, Shigeo; Maekawa, Yohei; Nagaoka, Atsushi; Murayama, Takehiko; Takejima, Kiyoshi; Yasumoto, Shinya

This paper clarified the factors of residents' attitude to solar-PV facilities through questionnaire survey on local residents.

Does the urban sprawl matter in air pollution, South Korea? Integrating quantitative and qualitative research

Mun, Hansol; Jung, Ju-Chul; Kang, Seung-Won

This study aims to develop an urban sprawl measurement model for South Korea as a basic research for sustainable city through quantitative and qualitative research.

Assessing urban disaster prevention through a case study of flood damage in South Korea

Park, Hyemin; Lee, Dalbyul; Yeom, Jae-Weon; Park, Ji-yong; Jung, Ju-chul

This study assesses the appropriateness of urban disaster prevention factor in flood-damaged areas through spatial analysis of urban flood control functions and proposes a sustainable disaster prevention city (case study in South Korea).

SOCIAL IMPACT ASSESSMENT

A holistic approach to SIA: Meaningful implementation for modern challenges (I)

Thursday 5 May | 09:00-10:30 | Room 17

Sponsored by Ausenco

Paper session

Chair(s): Nina Barton, Vilma Gayoso-Haro

This session explores topics relevant to current and evolving social impact assessment (SIA), including best practices and principles in SIA around the world, challenges and opportunities with changing regulatory requirements, the evolution of public involvement, and adaptive management of socioeconomic effects in a real-world context.

Reconciling net value in social impact assessment and monitoring

O'Brien, Jesse; Gustavson, Kent

An exploration of the motivation, approach, and direction for a net value lens in social impact assessment and socio-economic monitoring for major resource development projects in Canada.

ESIA of a payment for environmental services project in the Amazon region, Brazil

Coutinho, Miguel; Dos Santos Pereira, Henrique; Moreno Pires, Sara; Carvalho, Bethânia; Silva, Suzy; Pereira, Cloves

Assessment of the Floresta+ Amazon project was based in the application of UNDP SESP. Special focus was put into human rights, gender, and Indigenous Peoples impact assessment.

Closing the gap between local requirements and international standards in undertaking SIA: Case study of a mining project in Argentina

Gayoso-Haro, Vilma; Turner, Ashley

We discuss main gaps between local and international standards in SIA, explore challenges developing an IFC compliant SIA when local requirements are limited, and key strategies to overcome challenges.

Thinking of SIA through a construction lens

Rowan, Marielle; Yassenko, Juliette; Estrada Arbelaez, Laura

Understanding how SIA is used during construction helps practitioners better identify impacts and risks and propose management measures effective in a real-world context, including IP communities.

Concurrent sessions

A holistic approach to SIA: Meaningful implementation for modern challenges (II)

Thursday 5 May | 11:00-12:30 | Room 17

Sponsored by Ausenco

Paper session

Chair(s): Nina Barton, Vilma Gayoso-Haro

This session explores topics relevant to current and evolving social impact assessment (SIA), including best practices and principles in SIA around the world, challenges and opportunities with changing regulatory requirements, the evolution of public involvement, and adaptive management of socioeconomic effects in a real-world context.

Evaluation outcome of LRP with OECD/DAC method

Alizar, Aldi M.; Muhammad Affandi, Andri

How to implement the LRP and the OECD/DAC evaluation method so it can provide complete information regarding the impact of the program as a whole and can reveal the obstacles and best learning.

Managing socio-economic effects during major project construction

Weaver, Sian

Moving beyond impact assessment, this paper focuses on implementation of socio-economic regulatory requirements and managing issues during construction including monitoring, engaging, and reporting.

Are resources sufficient for the evaluation of social impacts of resource projects? Practitioner experience in British Columbia, Canada, and beyond

Barton, Nina; Gayoso-Haro, Vilma

SIA has become more central in impact assessments in BC and Canada, but are proponents dedicating enough resources for evaluation? We explore some of the constraints faced by practitioners.

From data and information to knowledge and wisdom in impact assessment

Thursday 5 May | 09:00-10:30 | Room 18

Paper session

Chair(s): Nicolas Cohen

IAIA Section: Social Impact Assessment

We will examine the challenges of relying on secondary data to inform impact assessments and the need for qualitative insights, meaningful relationships with host communities, and recognition of local knowledge to support meaningful decisions in project development.

Using secondary data to assess knowledge uptake and influence of the Rio Doce Panel

Souza, Barbara; Coguetto, Caroline; Edwards, Stephen;

Sanchez, Luis; Reinhard, Florian; Guizzardi, Silvia

Using a qualitative analysis tool to overcome the lack of primary data when assessing the Rio Doce Panel's influence and knowledge uptake in the Rio Doce restoration process.

Do we know enough: Filling data gaps for cumulative effects management

Paul, Maya; Coccola, Carley; Ouchi, Saachi

Data gaps are a challenge for cumulative effects management and collaborative initiatives allow for the establishment of trusted data to inform and engage resource management decisions.

Mining projects contribution to large-scale conservation of high Andean meadows

Cohen, Nicolas; Olivares, Patricio; Galli, Sabrina; Curadelli,

Franco; Corvalán, Francisco; Rios, Gustavo

Proposed restoration initiatives based on riverization of Andean meadows, to improve knowledge and also involve stakeholders in the conservation process, such as local agricultural schools.

Antamina: Transforming 25 years of data to a biodiversity conservation tool

Valencia Franke, Claudia; Ibaguren, Lucía

Antamina transformed 25 years of biodiversity data into a thorough BAP aimed at both contributing to science and planning mining growth while preserving its biodiversity-rich surroundings.

Gender impact assessment (GIA) with an inclusive perspective

Thursday 5 May | 16:00-17:30 | Room 17

Paper session

Chair(s): Bitá Rais

The perspective on gender as ground of inequality in land use and transport planning has been criticized for missing the social diversity within gender. Other categories (class, age, disability) play a crucial role in transport needs and barriers. This session focuses on an inclusive perspective which advances understanding of gender.

Gender: Barriers, perceptions, and inclusivity

Rais, Bitá

How can GIAs be further advanced to shape inclusivity within the context of gender? What are the key barriers in development planning and how should they be addressed to define intersectionality?

But what does intersection even mean? A content analysis of GBA+ in the IAA

Campbell Gale, Holly; Atlin, Cole; Fletcher, Amber

Content analysis exploring proponent and parliamentary engagement with GBA+ throughout the process of legislating the 2019 Impact Assessment Act.

A framework to successfully implement a gender-based analysis

Greenwood, Julie

A framework is presented for conducting a gender based analysis (GBA+) that is inclusive of gender and culture and navigates common challenges such as data limitations.

Measurement, methods, and meaning in psychosocial impact assessment

Saturday 7 May | 14:00-15:30 | Room 12

Paper session

Chair(s): Sergio Moreira, Helen Ross

PSIA is crucial to understanding how communities can prepare for, respond to, and recover from development-induced impacts. To address persistent reluctance on PSIA in IA practice, we explore the meaning of psychosocial impacts and the range of methods available for assessing them, complementing a companion session on PSIA theory.

Indigenous mental wellness and major projects

Tam, Jordan; Page, Justin; Salerno, Tania; Gosling, Sandra

Our study reviews the Indigenous mental wellness impacts that arise from major project developments, and provides recommendations to inform impact assessment practice.

Capacity needs for assessing social cumulative effects

Arnold, Lauren; Hanna, Kevin

This talk will describe the social cumulative effects that result from major hydroelectric developments and the regulatory and professional capacity needed to evaluate and manage these impacts.

How do community values shift when large projects impact their psyche?

Londoño Reyes, Andrés Leonardo; Rodríguez Macías, Edna

Liliana

This paper will present a case study that reflects the shifts in a community's psyche due to the presence of a large infrastructure project, proposing a framework for rescuing their values.

Unfounded prejudices about PSIs measurement

Moreira, Sergio; Ross, Helen

In this communication we address three prejudices against the measurement of psychosocial impacts that contribute to a persistent reluctance towards PSIA in IA practice.

What's hot in social impact assessment

Saturday 7 May | 14:00-15:30 | Room 8

Panel discussion

Chair(s): Frank Vanclay, Ana Maria Esteves

IAIA Section: Social Impact Assessment

Invited SIA identities will give short pitches about what they think are current or upcoming hot topics. These commentators are contributors to the "International Handbook on Social Impact Assessment" (editors Frank Vanclay and Ana Maria Esteves). This will be followed by facilitated audience discussion around what is or will be hot.

The tenuous future of human rights in impact assessment

Salcito, Kendyl

Executive Director of NomoGaia

Understanding the role of FPIC in Indigenous-led SIA

Olson, Rachel

Indigenous-led SIA and the role of FPIC are critical issues in impact assessment processes around the world. This presentation will explore key issues and challenges.

Considering local culture in impact assessment through an anthropological approach

Hanna, Philippe

Ethnographical fieldwork is key to comprehend how local communities might experience social impacts and therefore crucial for developing culturally adequate and more effective mitigation measures.

The role of SIAs in dealing with conflict

Cisneros Menchaca, Alex

This short presentation will describe new developments in SIAs, expanding the traditional assumptions of social conflicts towards more inclusive, relational aims to achieve equitable development.

Health and medical services management plans as conditions of EAs: Experiences from Northern British Columbia, Canada, during the COVID-19 Pandemic

Zirul, Chelan; Oke, Barbara

The management of industry-related health service impacts using legal implements derived during impact assessments and their application during the global COVID-19 pandemic.

Health impact assessment: Highlighting positive health effects in IA

Ollson, Christopher

HIA includes evaluation of positive health effects of a project. Lessons learned from HIA can be incorporated into evaluation of positive effects for other components of IA.

Health impact assessment for for energy transition

Mortara, Simone Fortunato; Villani, Francesca; Takherist, Foudil; Corinaldi, Alice; Msagha, Raphael Mwatembo; Xiao, Yina

The presentation describes the process adopted by Eni to better understand, research and finally manage the health impacts associated with the energy transition strategy adopted by the company.

Health impact assessment and health in environmental assessment in Europe

Gulis, Gabriel; Nowacki, Julia; Netanyahu, Sinaia

Member states of European region of WHO would welcome more international guidance, especially on tool development and personal capacity building. There is a need to enlarge the scope of assessment.

Health impact assessment: Research, policy, and application (II)

Thursday 5 May | 11:00-12:30 | Room 16

Paper session

Chair(s): Sally Western, Raina Fumerton, Dawn Hoogeveen

Advancements in research, policy, and practice have driven significant innovation in the incorporation of health impact assessment in environmental impact assessments. This session explores how health and wellness can be better integrated into impact assessment, from the local and community level up to Crown regulatory spaces and beyond.

Developing Indigenous health indicators for cumulative effects management

Bouche, Clémentine; Kwon, Katerina

The research identifies Indigenous indicators that give early signals of increased chronic conditions prevalence and reduced access to health services for development impact mitigation.

Health equity: Strengthening the theory and practice of impact assessment

Gislason, Maya; Kennedy, Angel

This paper offers reflections on how health equity scholarship can support the strengthening of theory-driven practice in impact assessments.

What's going on? WHO European Region and health in environmental assessment

Cave, Ben; Pyper, Ryngan; Fischer, Thomas; Muthoora, Tara

How do SEAs and EIAs cover human health across the WHO European Region? We present findings and implications for practice from a systematic review across 53 countries.

Quantifying SDOH using qualitative inputs and structural equation modeling

Reumers, Laurens; Hilderink, Henk; Bekker, Marleen; Hamelers, Niels; Jansen, Maria; Ruwaard, Dirk

This study demonstrates a way in which health effects of, and impacts of interventions on, SDOH can be quantified and estimated using qualitative inputs and structural equation modeling.

Health impact assessment: Research, policy, and application (III)

Thursday 5 May | 14:00-15:30 | Room 16

Paper session

Chair(s): Sally Western, Raina Fumerton, Dawn Hoogeveen

Advancements in research, policy, and practice have driven significant innovation in the incorporation of health impact assessment in environmental impact assessments. This session explores how health and wellness can be better integrated into impact assessment, from the local and community level up to Crown regulatory spaces and beyond.

Closing the gap: Gender diversity and intersectionality in health impact assessment

Hoogeveen, Dawn; Harris, Sandra

We explore how gendered dimensions of health can be better integrated into impact assessment to address the gap between policy and practice in British Columbia, Canada.

Using HIA to repair relationships and re-connect nature and health

Yehia, Jade; Waters, Shannon

Unlocking the potential of aligning HIA with BC's DRIP Act to bridge the fields of health, the built environment, and climate adaptation from the theoretical into real-world practice and application.

HEALTH IMPACT ASSESSMENT

Health impact assessment: Research, policy, and application (I)

Thursday 5 May | 09:00-10:30 | Room 16

Paper session

Chair(s): Sally Western, Raina Fumerton, Dawn Hoogeveen

Advancements in research, policy, and practice have driven significant innovation in the incorporation of health impact assessment in environmental impact assessments. This session explores how health and wellness can be better integrated into impact assessment, from the local and community level up to Crown regulatory spaces and beyond.

Concurrent sessions

Grounding health impact assessment in the federal impact assessment process: A Canadian context

Waheed, Faiza

This presentation explores how HIA can be effectively integrated within the Canadian impact assessment process. An overview of the ongoing Webequie Supply Road HIA is also provided.

HIA4SD Project: From research to policy dialogue

Winkler, Mirko

The HIA4SD Project is a major multi-country research effort aiming to strengthen public health policy in the extractive industries sector in four African countries.

CUMULATIVE EFFECTS ASSESSMENT

Handbook of Cumulative Impact Assessment: Insights from contributing authors

Thursday 5 May | 09:00-10:30 | Room 12

Paper session

Chair(s): Jill Blakley

This session showcases the work of select contributors to the "Handbook of Cumulative Impact Assessment," released in 2021. The Handbook profiles 40+ authors across 9 countries; all practitioners and thought leaders grappling with the challenges and opportunities of cumulative impact assessment in a wide variety of contexts. Insights and highlights from recent projects and material shared in the book are featured.

3 Critical elements of watershed cumulative effects assessments

Wilson, Barry

How everything is connected and the order matters, why watersheds are an ideal assessment scale, and how to link your impact assessments to planning and operations.

Cumulative impact assessment benefits for Mexico's impact assessment system

Tejeda-González, Juan Carlos

Mexico has not fully developed a cumulative Impact assessment approach within their environmental impact statements. Benefits for implementing CIA in Mexican EISs are presented.

Regional cumulative effects assessment in Canada: Innovations in practice

Blakley, Jill

Regional cumulative effects assessment initiatives have proliferated in Canada over the past 20 years. The scope of practice is presented with innovations for cumulative effects practice highlighted.

Indigenous-specific cumulative effects assessment methodologies

Wednesday 4 May | 15:00-16:30 | Room 17

Paper session

Chair(s): Alissa Cartwright

How can cumulative effects assessments (CEA) reflect Traditional Knowledge? What does a CEA methodology based on Indigenous ways of knowing look like? Our panel of experts will discuss cumulative effects projects they have completed with Indigenous communities in western Canada.

Cumulative effects and Indigenous governance: A case study

Herbert, James

This paper examines how Gitxaala Nation is reclaiming the management of cumulative effects by integrating assessment methods into a framework established by the Nation's own laws and practices.

Developing holistic approaches to cumulative effects assessments

Cartwright, Alissa

This presentation will consider how customized methodological frameworks developed in collaboration with First Nations elders/ knowledge holders can guide cumulative effects assessments.

Modelling cumulative effects on Adams Lake Indian Band Territory

Nordquist, Dave

The presentation will consider how Adams Lake Indian Band has utilized different cumulative effects models to communicate the impacts of cumulative effects on their Territory to government, proponents.

IMPACT ASSESSMENT

Application of the Zone of Influence concept in impact assessments

Friday 6 May | 16:00-17:30 | Room 11

Panel discussion

Chair(s): Mike Settrington, Kerman Bajina

Zone of Influence (ZOI) studies assess the indirect impacts of development on animal populations and local ecosystem functions. However, the mechanisms and spatiotemporal scales considered, and their influence on ZOI estimates, are ambiguous and rarely justified, which undermines confidence if these studies inform decision-making. Should ZOIs be a standard for impact assessments?

Using the Zone of Influence concept to map the ecosystem health of rivers in South East Asia

Meynell, Peter-John

Using the experience of the spatial extent of impacts of water infrastructure development in the rivers of South East Asia to identify zones of influence on river ecosystem health.

Wildlife Zone of Influence: Do existing mechanistic and ecological uncertainties hinder assessment confidence?

Coulton, Daniel; Virgl, John

Mechanisms and ecological meaning to wildlife populations are gaps but assumed ZOIs applied to environmental assessment can increase confidence in assessment conclusions.

Zones of Influence and areas of interest: Up to what degree should a project be held accountable?

Rodriguez, Edna Liliana; Londoño, Leonardo

This paper will explore the case of a large infrastructure project in Colombia in which the Zone of Influence was minimized to assume a lesser degree of accountability regarding its impacts.

Ecological context in ZOI and alternative frameworks

Bajina, Kerman; Settrington, Mike

Ecological context is crucial for assessing impacts to wildlife populations. It must be considered explicitly in ZOI/alternative frameworks and conclusions should be made on a case-by-case basis.

IA: Special challenges and potential (I)

Saturday 7 May | 09:00-10:30 | Room 11

Paper session

Chair(s): David W. Poulton

In session (I) we examine the potential of IA to assist understanding of impacts in challenging socio-economic, political or legal circumstances. Session (II) presents a series of talks on key issues in impact assessment and mitigation, including stakeholder engagement, cumulative effects, climate risk, and the mitigation hierarchy.

Cumulative effects: Balancing Indigenous rights, ecosystems, and economic components

Webster, Sandra

A look at where cumulative effects assessments miss the mark when considering effects on Indigenous rights and thoughts on ways to address this that don't halt development.

Impact assessment and governance cost reduction: The NEWMAP story

Onwughara, Izuchukwu

Impact assessment can be used to cut the cost of governance by incorporating it in designs and implementing recommended mitigation measures. NEWMAP has done this with resounding results worth sharing.

EIA: A model to facilitate strategic planning and performance management

Leach, Bryan; Kerr, David

A model of the EIA process is described that combines public consultation, knowledge sharing and decision-making processes within a proponent empathy and stakeholder trust framework.

IA: Special challenges and potential (II)

Saturday 7 May | 11:00-12:30 | Room 11

Paper session

Chair(s): David W. Poulton

In session (I) we examine the potential of IA to assist understanding of impacts in challenging socio-economic, political or legal circumstances. Session (II) presents a series of talks on key issues in impact assessment and mitigation, including stakeholder engagement, cumulative effects, climate risk, and the mitigation hierarchy.

Confronting already-significant existing cumulative impacts

Eyre, Marcus

This paper proposes that there are policy approaches that may improve project-based cumulative impact assessment outcomes when there are already significant existing cumulative impacts.

Cumulative impacts of downstream hydroelectric power plants in the state of Rondônia (Brazil) in their operation phase, using the socio-ecological systems approach

Mandai, Silvia Sayuri; Moretto, Evandro Mateus; Barros, Jocilene; Branco, Evandro Albiach; Arcoverde, Gustavo; Moran, Emilio

We propose a methodological framework and analyze the cumulative impacts of large and small hydropower plants in their operation phase, using the socio-ecological systems approach.

Climate risk management in impact assessment: USAID's example

Aryeetey, Henry Nii

The CRM processes and results—including identified climate risks, risk ratings, how risks are addressed, opportunities and any further analysis needed—must be documented in project appraisal documents.

Pinning down the mitigation hierarchy to protect biodiversity: A quest for principle and consistency

Poulton, David W.

The mitigation hierarchy is a prominent part of many impact mitigation policies. Case studies indicate that it is often not applied as written. This presentation examines the discrepancy.

Increasing impact assessment transparency through open science, data, and Indigenous knowledge

Thursday 5 May | 11:00-12:30 | Room 18

Paper session

Chair(s): Jessica Coulson, Catherine Ponsford

"Big Data" and "Open Data" converge in impact assessment. This session will share lessons from the Government of Canada's experiences making cumulative effects information publicly open and accessible. It is also an opportunity to learn from other jurisdictions, including Indigenous organizations, to make science, data, and knowledge accessible.

Earth observation for IA data needs: Availability, technology, and capacity

Janzen, Darren; Thomas, Sylvia; Lauer, Karen; Deschamps, Alice

This presentation describes how Canada is addressing barriers of availability, technology, and capacity of Earth Observation science to develop long-term environmental change data to support IA.

The Indigenous Centre for Cumulative Effects (ICCE): Etuaptmuk (Two-Eyed-Seeing), to better understand cumulative effects

Cardin, Paul-Antoine; Litzgus, Leea

ICCE wants to help build capacity of Indigenous communities to better manage the social, cultural, health, environmental, and economic issues related to cumulative effects.

Government of Canada's Open Science and Data Platform

Coulson, Jessica

The Open Science and Data Platform provides access to over 140,000 cumulative effects records, including geospatial data, scientific publications, maps and information about development activities.

CAPACITY BUILDING IN IMPACT ASSESSMENT

Sharing steps to improve IA by using stronger argument and reasoning

Thursday 5 May | 16:00-17:30 | Room 8

Panel discussion

Chair(s): Glenn Brown

A panel of people from different sectors will share their experiences in adopting two sets of tools to present stronger argument and clearer communication, and thus improve the quality of IA documents. They will discuss steps in learning and implementing the tools, and the benefits and challenges they have seen.

Supporting training to encourage stronger arguments in impact assessment

Matheson, Jeff

Jeff Matheson is an environmental consultant with Tetra Tech Canada Inc. and a director of IAIA's Western and Northern Canada Affiliate.

Building organized reasoning into impact assessment in a government context

Seale, Lorraine

Overview of the Government of the Northwest Territories' experiences using organized reasoning tools in IA and discussion with other panellists.

Overview and suggestions for the future of using stronger arguments in IA

Brown, Glenn

Closing summary after a panel from different organizations address their experiences with training for and implementing tools for building stronger arguments and clearer writing in the IA process.

Theories and concepts to build confidence in psycho-social impact assessment

Saturday 7 May | 11:00-12:30 | Room 12

Paper session

Chair(s): Jeffrey Jacquet, William Rifkin

IAIA Section: Social Impact Assessment

Gain a better understanding of the concepts, theories and terminologies employed in psycho-social impact assessment through academic case-studies and real-world PSIA's.

Psycho-social impacts from export infrastructure failure: Insights for IA

Junod, Anne; Jacquet, Jeffrey

Psycho-social impacts (PSIs) associated with oil train export infrastructure failure are reviewed with recommendations for mixed methods approaches to measuring PSIs.

Assessing impacts that matter to people: Practical examples of assessing psycho-social impacts within environmental impact assessments

Fairbairn, Catherine

Practical examples of identifying, understanding, and assessing psycho-social impacts during environmental impact assessment in the Mackenzie Valley.

Psycho-social impact assessment: Past, present and future

Rifkin, Will; Banwell, Cathy

This paper provides an overview of the history and current status of PSIA in impact assessment along with options for bolstering theory and enhancing practice. The paper and the session are supported by members of an emerging PSIA special interest group.

G3 BIODIVERSITY AND ECOLOGY

Nature positive: Reaching a global goal for nature (I)

Thursday 5 May | 14:00-15:30 | Room 13

Panel discussion

Chair(s): Rachel Asante-Owusu

What role can environmental and strategic impact assessment (ESIA) and other process and approaches play to help define and achieve Global Nature Positive goals? How can EIA practitioners be harnessed to help decision makers and other societal groups to implement projects that meet numerous broader goals including nature-positive targets?

Concurrent sessions

Delivering nature-positive outcomes in complex multi-use landscapes: FFI's CALM framework

Holland, Twyla; Lyoncaverns, Anna; Howard, Pippa
Setting positive objectives to collaboratively address impacts in complex multi-use landscapes.

Evaluating biodiversity offsets to achieve net gain at project level

Souza, Barbara; Rosa, Josianne Claudia; Siqueira-Gay, Juliana; Valetich, Rebeca; Sánchez, Luis
The principles of equivalence, additionality and permanence are used as criteria to evaluate offset outcomes at an iron ore mine and derive lessons for practice.

Aligning ecological compensation policies with the post-2020 Global Biodiversity Framework to achieve real net gain in biodiversity

Maron, Martine; Simmonds, Jeremy; von Hase, Amrei; Quetier, Fabien; Brownlie, Susie; Possingham, Hugh; Souquet, Mathieu; zu Ermgassen, Sophus O.S.E.; ten Kate, Kerry; Costa, Hugo M.; Sonter, Laura J.
We outline how to align ecological compensation policies with the nature positive goals of the post-2020 Global Biodiversity Framework.

Nature positive: Reaching a global goal for nature (II)

Thursday 5 May | 16:00-17:30 | Room 13

Panel discussion

Chair(s): Rachel Asante-Owusu

What role can environmental and strategic impact assessment (ESIA) and other process and approaches play to help define and achieve Global Nature Positive goals? How can EIA practitioners be harnessed to help decision makers and other societal groups to implement projects that meet numerous broader goals including nature-positive targets?

The World Bank's approach to supporting nature-positive investments

Moore, Peter

The World Bank's approach to supporting nature-positive investments.

Tools measuring nature-positive contributions

Asante-Owusu, Rachel; Edwards, Steve

We are exceeding planetary boundaries, creating a nature and climate emergency. The nature-positive approach contributes to solving both. Presented are tools to demonstrate nature-positive contributions.

Applications of eDNA technology for improved EIA and conservation outcomes

Ross-Gillespie, Vere; Bruce, Kat

Conventional biodiversity surveys for EIAs are costly and resource intensive. eDNA tools provide unprecedented amounts of data to inform the mitigation hierarchy and supporting stakeholder engagement.

The duty of care and impact assessment in protected areas

Martel, Marie-Claude

Protected areas mandate requires a duty of care that, for project impact assessment, is higher than for surrounding jurisdictions, and has implications to the determinations of significance.

Including nature-based solutions in project design and impact assessment

Saturday 7 May | 09:00-10:30 | Room 13

Panel discussion

Chair(s): Stephen Edwards

This session will discuss and clarify what are nature-based solutions, including a framework to design, implement, and scale up NbS actions (the IUCN Global Standard for NbS), it will review cases where NbS is being used around the globe, and discuss how to integrate NbS clearly into policy and impact assessment.

Introducing the IUCN nature-based solutions global standard

Edwards, Steve

We will introduce the IUCN Global Standard for Nature-based Solutions, a facilitative framework that helps users design, implement and upscale NbS actions.

Developing synergies between isolated corporate areas through NbS language

Prischel Hoeneisen, Nicole; Eguren, Antonieta; Cross, Molly; Ascanio, Rafael

The process of a mining company in incorporating the NbS as the common language to find synergies in their business objectives related to biodiversity, climate change, and communities.

Guidance on nature-based solutions for the mining sector to achieve forest smart responsible mining

Howard, Pippa; Jenner, Nicky

Forest Smart mining is a key component of the transition to responsible mining for a low carbon economy. The guidance promotes nature based solutions for sustainable development in the mining sector.

CLIMATE CHANGE

Status of IAIA's Climate Change Action Plan and next steps in 2022

Wednesday 4 May | 15:00-16:30 | Room 13

Fishbowl

Chair(s): Weston Fisher

IAIA Section: Climate Change

This roundtable will use the "IAIA Climate Change Action Plan Status Report and Next Steps 2022" to discuss accomplishments to date and suggested practical next steps for the period May 2022 - April 2023. It will also include a discussion of the relationship of IAIA's Climate Change Section to the theme of the Vancouver '22 conference.

NATURAL DISASTERS AND CONFLICT

The COVID pandemic, disasters, conflict, impact assessment, and beyond (I)

Saturday 7 May | 09:00-10:30 | Room 8

Paper session

Chair(s): Charles Kelly

IAIA Section: Disasters and Conflict

COVID has affected the policy, practice, and lives of those involved in impact assessment. The session includes papers on how the pandemic has affected impact assessment. Recognizing that impact assessment faces other disasters besides COVID, a separate session is devoted to non-COVID disasters and impact assessment.

Differentiated impact of climate change-induced disasters and adaptation actions

Haque, C. Emdad; Azad, M.A. Kalam

This study validates that the effects of climate change-induced disasters and adaptation actions are alarmingly uneven between the countries as well as diverse socioeconomic groups within communities.

Concurrent sessions

Impacts of COVID-19 pandemic on rural livelihoods and food security: Potential strategies

Chitakira, Munyaradzi; Pundo, Simbarashe

COVID-19 caused severe adverse impacts on livelihoods of rural communities, which presents a challenge to develop response mechanisms to improve resilience of these communities.

Navigating fieldwork and training through the pandemic and Gaza crisis

Wilkinson, Fraser

I will discuss how the pandemic and the crisis in Gaza impacted our working practices and my own progression with a focus on lessons learned throughout.

The COVID pandemic, disasters, conflict, impact assessment, and beyond (II)

Saturday 7 May | 11:00-12:30 | Room 8

Paper session

Chair(s): Charles Kelly

IAIA Section: Disasters and Conflict

COVID has affected the policy, practice, and lives of those involved in impact assessment. The session includes papers on how the pandemic has affected impact assessment. Recognizing that impact assessment faces other disasters besides COVID, a separate session is devoted to non-COVID disasters and impact assessment.

IA for fragile and conflict states in a post-COVID context

Hart, Tracy; Spencer, Phoebe

This talk summarizes a recent WBG review of its environment and natural resource work in fragile and conflict states (FCS), with a focus on how impact assessment in FCS has changed in the COVID context.

How COVID-19 has affected impact assessment: Results from practitioner surveys

Kelly, Charles

The presentation will summarize the results of surveys on COVID and impact assessment to document the course of the disease on impact assessment and outline what may be coming next.

The world has pivoted due to COVID: Should IA as well?

Croal, Peter

This presentation will discuss why IA has been weakened during the COVID pandemic, and how IA must be strengthened now to address the accelerating global climate and biodiversity crises.

CORPORATE STEWARDSHIP AND RISK MANAGEMENT

Game-changer: Social performance and community health and safety in Anglo American

Saturday 7 May | 14:00-15:30 | Room 11

Paper session

Chair(s): Lauren Vopni

IAIA Section: Health

Anglo American's publicly available social performance standards—The Social Way—were recently updated. We will present a retrospective of our social performance journey, internal learning and development efforts, and how we are changing the game in critical areas like community health and land access, displacement and resettlement.

Managing CHS through health impact assessment at Anglo American

Silva, Filipe; Dival, Mark

We will see AA's strengthened management of community health and safety through the use of health impact assessment in line with international best practice, case studies, challenges and opportunities.

Land access, displacement, and resettlement management at Anglo American

Lotter-Dogru, Karien

The presentation covers three key aspects of Anglo's approach to LADAR management, namely integration, governance, and climate change considerations. Lessons learned and material risks are discussed.

Social way learning: Embedding social performance across Anglo American

Vopni, Lauren

This presentation will discuss key insights into social performance skill and competency development gathered through the Anglo American Social Way 3.0 Learning Programme.

Local content: From policies to results

Friday 6 May | 09:00-10:30 | Room 17

Panel discussion

Chair(s): Jeanne Ellis

This session will identify and explain different local content policies globally, discuss how to address them during the ESIA process, identify the public, private and civil society roles, and give examples of local content development programming, including programs that focus on Indigenous suppliers and workers.

Local content policies and action in the extractive sector

Ellis, Jeanne; Flynn, Louise

This presentation will explain different local content policies globally, discussing how ESIA practitioners can address them during the ESIA process and design and implement effective programs.

Lessons in local content initiatives from the Fruta del Norte mine

Monash, Nathan

This session will address the lessons learned from local content initiatives at the Fruta del Norte Mine in Ecuador.

Information-sharing on local procurement: Driving performance and aligning actors

Xavier, André

This presentation will cover the increasing demands on major projects and operations to maximise local procurement of goods and services, and how proponents can use information-sharing to drive internal performance and empower host economies.

Indigenous leadership and informed decision making: Redefining cumulative effects for environmental assessment

Ngo, Marian

An Indigenous-led solution to reforming environmental assessments and breaking the cycle of overwhelming referrals, inadequate consultations, information gaps, and court proceedings.

REGULATION AND GOVERNANCE

Compliance and enforcement of ESIA: Principles and best practices

Friday 6 May | 11:00-12:30 | Room 11

Caravan

Chair(s): Cheryl Wasserman

IAIA Section: Governance and Implementation Systems

Following a brief introduction to the draft "Principles and Best Practices for ESIA Compliance and Enforcement: requirements, commitments and related permits" and presentations on related topics, participants will join small caravan-style rotating groups for facilitated discussion of the relevant paper and related principles, concluding with report outs.

Monitoring programs for environmental compliance of projects in ESIA

Araya, Gino; Johnson, Juan E.

The work shows the results of the experience of the use of technology in the analysis of the behavior of environmental variables for the correction in the implementation of mitigation measures.

EIA as an equal partner for decision making in project planning

Salih, Ramzy

This paper is aimed to deal with EIA and its strong personality and how it takes its real role in decision making with strong legislations and laws supported EIA.

Making IA governance principles functional in Ghana through effective institutional collaboration

Amoyaw-Osei, Yaw

The paper explores how lack of functional institutional collaboration denying best practice governance principles for IA compliance/enforcement could be fixed in Ghana and to benefit other countries.

Analysis of the environmental sanctionatory procedures in Chile: A 10-year overview

Pérez, Cristian; Bergamini, Kay; Honorato, Iván

The review of environmental sanctionatory procedures will help to understand connections between enforcement and the EIA process as well as to identify opportunities of improvement for practitioners.

Environmental compliance management in Chile

Bergamini, Kay; Perez, Cristian

Environmental Compliance Management is a book that contributes from Chile to Latin America or other Spanish-speaking countries regarding governance and environmental compliance.

Human rights impact assessments: Trends and approaches

Wednesday 4 May | 15:00-16:30 | Room 16

Panel discussion

Chair(s): Irit Tamir, Caroline Brodeur

The rise in mandatory human rights due diligence laws has clear implications for the role of human rights impact assessment in meeting these new requirements. This session will discuss the trends in human rights impact assessments and emerging approaches.

Reviewing trends in mandatory human rights due diligence

Tamir, Irit

This presentation will cover various regulations in place related to mandatory human rights due diligence and what it means for impact assessment.

Let's make human rights fashionable: Due diligence in global supply chains

Stefov, Dana

What if companies were legally required to assess their human rights impacts? Oxfam explores how mandatory human rights due diligence can uphold rights and end poverty wages globally.

Bringing communities on board to rebalance powers in impact assessments

Brodeur, Caroline

Caroline Brodeur works as a business and human rights advisor with Oxfam since 2014. A strong believer in community-based processes, she explores ways to include community voices in hybrid approaches.

Unusual bedfellow: Thinking of a hybrid impact assessment

Soto, Miguel

Miguel Angel Soto is director of strategic engagement and advocacy campaigns at PODER, a regional NGO based in Mexico specializing in corporate accountability and business and human rights.

Impact assessment innovations in Western and Northern Canada (I)

Thursday 5 May | 09:00-10:30 | Room 8

Paper session

Chair(s): Matt Hammond, Randy Krichbaum

This session showcases creative innovations to address known problems in impact assessment from Western and Northern Canada. Examples include progressive policy, methods, processes, and assessment tools. Come explore exciting new approaches! Hosted by the Western and Northern Canada Affiliate of IAIA.

Caribou habitat and federal pipeline oversight in Canada

Brown, Suzanne; Pfeiffer, Zoe; Logan, Andria; Rehbein, Christina

This presentation discusses the Canada Energy Regulator's experience with caribou habitat restoration and offset condition requirements on federally regulated linear oil and gas projects.

Reconceptualizing cumulative effects through Indigenous knowledge systems

Ignace, Lawrence

Reconceptualizing of cumulative effects using Indigenous knowledge systems is the emphasis of my PhD thesis. I will discuss three Indigenous frameworks that could be used to re-shape cumulative effects assessment and management.

Building public trust with accessible and engaging reports and reporting tools

Mansfield, Kate

EA reports are often hard to read and understand. Creating simpler, better, and more meaningful reporting tools can increase public confidence and help with decision making.

Assessing biophysical factors that support ecosystem function in EAs

Hubert, Edwin

This presentation provides an approach to describing the interactions of biophysical factors that support ecosystem function in an EA within the context of the valued components framework.

Impact assessment innovations in Western and Northern Canada (II)

Thursday 5 May | 11:00-12:30 | Room 8

Paper session

Chair(s): Matt Hammond, Randy Krichbaum

This session showcases creative innovations to address known problems in impact assessment, from Western and Northern Canada. Examples include progressive policy, methods, processes, and assessment tools. Come explore exciting new approaches! Hosted by the Western and Northern Canada Affiliate of IAIA.

A rights assessment methodology for impact assessment

McCormack, Patricia; Dyck, Thomas

This paper presents a rights assessment methodology for IAs involving Indigenous people.

Assessing project extensions and amendments: Trust, time, and the Ship of Theseus

Ehrlich, Alan

This talk considers conceptual and practical challenges of assessing major amendments or extensions of previously approved industrial developments.

Use of acoustic models to assess SRKW mitigation and address uncertainty study

Lacroix, Deborah; MacGillivray, Alexander; Tollit, Dominic; Grooms, Connor; Johnson, Amy; Gilbert, Marianne

The use of adaptable models to evaluate and monitor potential project effects and mitigation effectiveness can be a valuable tool to inform environmental assessments and adaptive management.

An Indigenous-led EA on Northern Vancouver Island

Mioska, Mary; Hunt, Dorothy

Case study of an environmental assessment conducted in collaboration between Kwakiutl First Nation and Orca Sand & Gravel in Kwakiutl Territory on Vancouver Island, BC, Canada.

Impact assessment innovations in Western and Northern Canada (III)

Thursday 5 May | 14:00-15:30 | Room 8

Paper session

Chair(s): Matt Hammond, Randy Krichbaum

This session showcases creative innovations to address known problems in impact assessment, from Western and Northern Canada. Examples include progressive policy, methods, processes, and assessment tools. Come explore exciting new approaches! Hosted by the Western and Northern Canada Affiliate of IAIA.

Climate impact statements: Flipside of an environmental impact statement

Sypniewski, Jaimlyn; Wilcock, Ronni

A climate impact statement addresses the impact of the environment on the project and seeks to minimize damage to existing or new assets over the course of its lifecycle.

Twitter! **#iaia22**

Amiri, Shima

Tourism and other development projects if implemented using a top-down approach may detrimentally affect local and tribal communities. This can be partially alleviated using a more inclusive approach.

An, Junyeong; Ji, Min Kyu

We analyzed the flow of the wastes generated in the local governments of South Korea, containing regional information on waste generation and treatment, and we visualized the analyzed results.

Brodbeck, Chantal; Fitzpatrick, Patricia

This presentation considers the efficacy of the public registry for providing a basic tool to build on to facilitate meaningful engagement.

Dakan, Lindsay; Zook, Lisa

How can projects better bring the voices of participants back to program staff and stakeholders? Amplio's Talking Book is a digital solution that collects qualitative feedback recordings from users.

Durand, Giovanna; Evans, Julie

This poster illustrates the participatory process undertaken to evaluate alternatives and define the best alignment for a 555km long 200kV power transmission line in Paraguay.

Ji, Min Kyu; An, Junyoung

In this work, we suggest an improved EIA methodology for private landfill projects, to minimize environmental impact with the leakage of landfill leachate to water bodies.

Lombardi Garbellini, Guilherme; Westbrook, Cherie

This research explores the mitigation hierarchy in EA practice for managing the impacts of mining operations to wetlands in British Columbia and Yukon.

Mohamed. Sumia

Using nature-based solutions in a transboundary context to address the effects of hydropower development and climate change in the Eastern Nile Basin.

[illegible]

Special meetings, networking, and social events (on-site)

WORLD BANK WORKSHOP

This workshop provides an update on the World Bank's Environmental and Social Framework (ESF) launched on 1 October 2018. This session will include a focus on a particular area of topical interest, based on experience from ESF implementation (TBC).

Wednesday 4 May | 09:00-12:00 | Room 13
Pre-registration by 13 April required.

SASKPOWER REGIONAL EVALUATION PROCESS FOR THEIR SMALL-MODULAR REACTOR PROJECT

SaskPower is pleased to host a session to introduce the Regional Evaluation Process for their Small-Modular Reactor Project. Enjoy breakfast as you learn about one of the first projects to be reviewed under Canada's new Integrated Review Panel Assessment Process. In this case the proponent is voluntarily undertaking a regional evaluation process involving multi-stakeholder input to inform their project decision making. Join us for a presentation and panel discussion.

Sponsored by Hatch.
Breakfast provided.
Friday, 6 May | 07:30-08:30 | Room 1
Pre-registration by 13 April required.

VIRTUAL COFFEE BREAKS

In-person and virtual delegates can interact with each other during these virtual gatherings. Network, exchange ideas, and make new friends during these casual, Zoom-based conversations. Join through the event links in Pathable.

Thursday, 5 May | 17:40-18:40 PDT (00:40 UTC 6 May)
Friday, 6 May | 12:30-13:30 PDT (19:30 UTC)
Saturday, 7 May | 07:30-08:30 PDT (14:30 UTC)

IAIA INITIATIVE TO DEVELOP SEA GUIDELINES FOR RENEWABLE ENERGY

Learn about and help shape IAIA's new climate action initiative to develop SEA guidelines for the renewable energy sector: covering hydropower, wind, tidal, solar, geothermal and bioenergy as well as retiring coal-fired power plants and associated coal mines. Barry Dalal-Clayton and Miles Scott-Brown will explain this multi-phase initiative and present progress to date. IAIA seeks your guidance and input. Grab your lunch and meet us upstairs.

Friday, 6 May | 12:50-13:50 | Room 13
Open event; no pre-registration required.

STUDENTS AND YOUNG PROFESSIONALS (SYP) WORKSHOP

The SYP Section invites early career IA researchers, practitioners, and post-graduate students to a half-day, in-person workshop to present their work, listen to seasoned IA practitioners and academics speak about their career path, and participate in a speed-mentoring activity.

Wednesday 4 May | 08:30-12:00 | Room 14
Pre-registration by 13 April required.

AWARDS LUNCHEON

IAIA is pleased to recognize its 2022 award winners. The presentation of awards will take place over lunch (Exhibit Hall A) on Thursday, 5 May. All are welcome! See page 41 for a list of award winners.

WELCOME/POSTER RECEPTION

Catch up with old friends and meet new ones at the welcome reception. This is conveniently held at the conference venue. The Vancouver Conference Centre offers a breathtaking setting overlooking the Coast Salish Sea with a dramatic mountain backdrop. Sample some of Vancouver's finest West Coast cuisine and enjoy local beer and wine. This relaxed event provides the perfect opportunity to begin the week's activities.

Posters are on display at the reception (and throughout the week), so take advantage of this opportunity to meet the authors!

Monday 4 May | 17:00-19:00 | Exhibit Hall A
Pre-registration by 13 April required.

MENTOR/MENTEE MEET AND GREET

The mentoring program helps students, early professionals, and first-time delegates feel more comfortable and less overwhelmed with their IAIA conference experience. The Mentor is an experienced IAIA member who acts as a discussion partner on common topics of interest for the professional development of the Mentee and as a friendly point of contact for guidance and navigation through IAIA (e.g., conference format and introductions to other members).

Wednesday 4 May | 12:15-12:45 | Room 11
Pre-registration by 13 April required.

BANQUET

Attendees will experience the ambiance and flair of the City of Vancouver at the conference banquet. This port city is one of the most ethnically diverse in all of Canada, and the food scene—rated as a top dining destination in North America—is sure to impress even the most seasoned travellers. For this seated dinner, the regional cuisine will showcase a fusion of many flavors, with distinct influences from the Northwest, Japan, India, and China.

Friday 6 May | 18:00-20:00 | Ballroom
Pre-registration by 13 April required.

SPEED NETWORKING

Hundreds of people will attend IAIA22. How many will you meet?

If you have ever tried speed dating, then you already know the concept—we have just changed the focus! How it works: You will be seated in rows so that you are facing another person, and every three minutes one row will be asked to move up one seat so they are facing someone different. You will spend the three minutes conversing with your partner about yourself, your work, your interests, why you are attending IAIA22, anything you like. Over a period of an hour, you will meet 15 new people, people that you may not otherwise get to meet in the normal course of a diverse international conference. The aim is to make new professional connections that you can build upon throughout the conference and beyond.

Sponsored by Hatch
Thursday 5 May | 17:40-18:40 | Room 19
Pre-registration by 13 April required.

TWITTER!

Tweet about IAIA22 before, during, and after the conference using **#IAIA22**.



Global Award

International Union for Conservation of Nature (IUCN) has been selected for this honor because their diversity and vast expertise makes them the global authority on the status of the natural world and the measures needed to safeguard it and for their sustained support of environmental impact assessment.

The Global Award is presented annually to a leading individual or institution that has made a substantial contribution to the practice of environmental assessment, management or policy at a global scale.

Impact Assessment Agency of Canada / Agence d'évaluation d'impact du Canada

Regional Award

Impact Assessment Agency Canada (IAAC) has been selected for leading impact assessment legislation world-wide, featuring important innovations, such as contributions to sustainability focus and how indigenous peoples are engaged and empowered.

The IAIA Regional Award is awarded to an individual or organization that has made a substantial contribution to the field of impact assessment and/or has taken a leadership role in promoting best practice in impact assessment within the general world region of the location of the conference for that year.



Lifetime Achievement Award

Alistair Clark receives this honor in recognition of his significant contribution to environmental and social impact assessment, driving good international practice and better assurance processes through leadership.

The IAIA Lifetime Achievement Award, previously known as the Rose Hulman Award, is awarded to long-term supporters and members of IAIA for major contributions to the field of impact assessment.



Individual Award

Charles Kelly receives this award for meticulously coordinating the IAIA Pandemic Task Force to bring out a set of workable recommendations. In demanding times when members around the world were facing pandemic challenges, he organized and completed the reports that will lay foundation for further works.

The IAIA Individual Award acknowledges personal contribution to the discipline of impact assessment. It recognizes major achievement and advancement in theory and/or practice over a period of time at an international level.



Institutional Award (tie)

The **Environmental Assessment Practitioners Association of South Africa (EAPASA)** was chosen for this award for formalizing the internal structures and processes to include continuing professional development processes for environmental assessment practitioners in South Africa.

**TANZANIA
NATIONAL
PARKS**

Tanzania National Parks receives this award for consistently implementing impact assessment in the development and implementation of all general management plans, taking care to ensure that the conservation strategies developed for addressing threats are subject to a rigorous process of assessing environmental consequences.

The IAIA Institutional Award is presented to a national or international government or nongovernmental organization for outstanding contribution to impact assessment practice or other environment-related activity deserving of recognition.



Youth Award

Juliana Siqueira-Gay receives this award for her innovative research and modelling skills, including the impacts of policy on forest landscapes, mining and infrastructure development, and mining inside Indigenous Lands.

Acknowledges a distinguished young IAIA member under the age of 35 with outstanding achievements in the impact assessment field.



Outstanding Service to IAIA

Akiko Urago is recognized for her extensive work and dedication with translating IAIA publications since 2015.

Thomas Fischer is recognized for his years of service to IAIA as the IAPA Journal editor.

Wes Fisher is recognized for his dedication to the drafting and implementation of the IAIA Climate Action Plan.

The IAIA Board of Directors selects the recipient of the Outstanding Service to IAIA Award, which recognizes one or a small number of key individuals within IAIA who have provided exceptional service to IAIA as an organization over a number of years.



Urago



Fischer

Fisher

Corporate Initiative Award

Inter-American Development Bank (IDB) was selected for their significant update of sustainability policies and for promoting awareness among members regarding adaptation to climate change and other environmental and sustainability challenges.

Presented to a private or public sector company for a specific activity or project that has made a notable contribution to responsible development practice through the application of impact assessment.



IAPA Best Paper of 2021

The 2021 IAPA Best Paper Award is presented to **Emilia Ravn Boess, Ivar Lyhne, Juanita Gallego Davila, Emilie Jantzen Ulf Kjellerup and Lone Kørnøv** for their paper, "Using Sustainable Development Goals to develop EIA scoping practices: The case of Denmark," published in IAPA 39(6) 463-477. Read the best paper on the Pathable platform.



Don't miss the new Awards Luncheon! See details on page 40.

Nominations for 2023 Awards will open soon. Please watch <https://www.iaia.org/awards.php> for more information.



Rita R. Hamm IA Excellence Scholarship

Holly Campbell Hale (Australia) was selected as the recipient of this year's Rita R. Hamm IA Excellence Scholarship. Holly is a PhD Candidate in Interdisciplinary Studies at the University of Regina. She recently completed fieldwork for dissertation on the social impacts of climate change, and currently working within a research team to evaluate the integration of GBA+ into Canada's IAA 2019.

The Rita R. Hamm IA Excellence Scholarship, in honor of the legacy that IAIA's former CEO left on the organization and the field of impact assessment, is offered in conjunction with each annual IAIA conference, allowing a young practitioner in the region of the host country to attend.

Supporter messages

ERM's leading experts in impact assessment help clients around the world by delivering robust strategies and analyses – built on meaningful collaboration with communities and governments – that enhance management of project risks, promote stakeholder confidence, and support sustainable development.

Visit: www.erm.com

For more information contact:
Jackie Lerner
+1 236 260 1881
jackie.lerner@erm.com

The business of sustainability



Helping facilitate the development of impact assessments

CSA Group can support the development of regulatory impact assessments.

Leverage CSA Group's:

- modern, consensus-based approach to standards development
- volunteer members and their wide technical expertise
- credible tools providing requirements, guidelines, and industry best practices



Resilience through impact assessment and leadership

8-11 May 2023

See you there!

Kuching
✓
Sarawak
✓
Borneo
✓
Malaysia



Learn more
csagroup.org/Standards
gr@csagroup.org

©2022 Canadian Standards Association

 **Royal HaskoningDHV**
Enhancing Society Together

Digital Environmental Impact Assessment
Bold vision. Proven impact.

At Royal HaskoningDHV, we're solving complex challenges in the built environment through next generation environmental impact assessments that are digital, interactive and accessible.

Backed by over 140 years of in-depth expertise in sustainable development and innovation, our solutions are reliable, safe and future-proof; enhancing and protecting communities around the world.

Meet us at our booth to find out more.

royalhaskoningdhv.com

Sustainable Teck

We are focused on responsibly producing the metals and minerals essential for the modern world and the global transition to a low-carbon future.

Learn more at
www.teck.com/sustainability

Teck

100% Renewable Energy University The First in Japan

Towards SDG 12 Responsible consumption and production
In 2019, CUC achieved the first “RE 100 University of electricity” in Japan.

In 2020, CUC became the first member from Japan to join the UN “Race to Zero” campaign.



CUC Chiba University of Commerce
www.cuc.ac.jp

SEARCH

searchinc.com



HARNESS THE POWER OF THE PAST

Over land and under water, SEARCH is a leading international provider of cultural heritage services supporting the world's largest and most complex major capital projects. Since 1993, our team of experts have completed more than 4,000 commercial and government projects across 33 countries spanning seven continents and four oceans. We combine cutting-edge technologies with regional knowledge and an international perspective to identify, assess, and manage business risk related to cultural heritage by aligning projects with relevant international lender standards and host-country requirements.

Justin Bedard
World Heritage Sector Leader
justin.bedard@searchinc.com



As the world's energy needs change, so does Enbridge.

Enbridge has a long history of adapting to energy markets; we were early investors in renewable energy, we've recently expanded our natural gas business and we're advancing projects to use renewable natural gas made from organic waste and alternative energy like geothermal and hydrogen.

Meeting growing global energy demand and reducing emissions will require multiple energy pathways. We're committed to finding solutions to provide the energy people need and want — today and into the future.

Learn more at enbridge.com/ESGgoals.



Notes

[illegible]

HATCH



Smarter solutions for the
world's toughest challenges.

Environmental protection is a global challenge that requires innovative engineering and business knowledge to create positive change.

We work closely with the communities in which we serve to ensure that our solutions optimize environmental and economic prosperity, social justice, and cultural vibrancy. We want your businesses, ecosystems, and communities to thrive, both now and into the future.

Let's create positive change together.

Contact us at hatch.com.



Impact Assessment Agency of Canada

Delivering **robust impact assessments** based on science and Indigenous knowledge for better decisions on major resource projects.

 @IAAC_AEIC



LEARN MORE



Impact Assessment
Agency of Canada

Agence d'évaluation
d'impact du Canada

Canada



CELSIUS 1.5

Impact Assessment and Climate Change

27-28 SEPTEMBER 2022 | SOUTH AFRICA

conferences.iaia.org/climatechange22



Climate change in
impact assessment



Best practices in resilient
and low-carbon cities



Africa's transition to a
low-carbon economy

Coastal GasLink's respect for the land, culture and communities guides all of our decisions.

We are committed to achieving the highest standards of environmental protection during construction, and throughout the life of the project.

Together, we're building a legacy of responsible development.



CoastalGasLink.com



[@CoastalGasLink](https://twitter.com/CoastalGasLink)

Coastal GasLink



TC Energy

Question the predictable/ *Stand for* *innovation/* Change the landscape

At WSP Golder, we put meaningful partnership, innovation, and regulatory know-how to work to design, deliver and support sustainable development.

wsp GOLDER

wsp.com

Ballot/SYP Agenda

Help identify outstanding presentations!

Based on delegates' feedback, select presenters will be invited to record their presentations for online viewing.

Please drop off your ballot at the registration desk by 16:00 on Saturday 7 May, or complete the sessions survey in the mobile app or in Pathable.

OUTSTANDING PRESENTATIONS

Submitted by

Presenter's name

Presentation title

Session Date	Session Time			
Wednesday 4 May				15:00
Thursday 5 May	09:00	11:00	14:00	16:00
Friday 6 May	09:00	11:00	14:00	16:00
Saturday 7 May	09:00	11:00	14:00	

What makes this presentation outstanding?

.....

.....

.....

Presenter's name

Presentation title

Session Date	Session Time			
Wednesday 4 May				15:00
Thursday 5 May	09:00	11:00	14:00	16:00
Friday 6 May	09:00	11:00	14:00	16:00
Saturday 7 May	09:00	11:00	14:00	

What makes this presentation outstanding?

.....

.....

.....

Presenter's name

Presentation title

Session Date	Session Time			
Wednesday 4 May				15:00
Thursday 5 May	09:00	11:00	14:00	16:00
Friday 6 May	09:00	11:00	14:00	16:00
Saturday 7 May	09:00	11:00	14:00	

What makes this presentation outstanding?

.....

.....

.....

STUDENTS AND YOUNG PROFESSIONALS (SYP) WORKSHOP

Wednesday 4 May | 08:30-12:00 | Room 14

To foster the integration of students and young professionals in IAIA conferences, the Students and Young Professionals (SYP) Section have organized a half-day "Student and Young Professionals Workshop" as a pre-event of IAIA22.

PROGRAM

07:45 - 08:30

Registration (IAIA22 registration desk)

08:30 - 08:40

Workshop opening. Marla Orenstein (IAIA President) will do the honors of welcoming the SYP Section members to the workshop.

08:40 - 09:40

Keynote speakers presentations. Invited speakers from different sectors present their experience and share their points of view about career issues related to IA career development.

09:40 - 09:55

Coffee break

9:55 - 10:30

Elevator-pitch presentations by SYP. Five SYP members (pre-chosen volunteers) will present what they are working on (4 minutes each) and all the participants of the workshop will be able to benefit from the experience of others.

10:30 - 11:50

Speed mentoring. Just like speed dating, the SYP will introduce himself/herself to an experienced member of the IAIA (the mentor) and have 4 minutes for an exchange. At the expiration of the 4 minutes, the SYP will move to meet the next mentor. The objective of this speed mentoring is to meet new people and develop your network.

11:50 - 12:00

How you can get more involved in the Section and close of workshop (SYP Chairs Abulele Adams and Catherine Kerr-Smith)

EXHIBITORS



- Stantec
- Celsius 1.5: Impact Assessment and Climate Change Symposium (IAIAsa)
- IAIA23 (Kuching, Malaysia)
- IAIA22 Conference Hosts

- BIOTA - Estudos e Divulgação em Ambiente, Lda.
- IAIA Western and Northern Canada (WNC)
- WSP Golder

AFFILIATE POSTERS

Check out the posters in Vancouver to learn about these groups and their latest activities (and tune in to the mobile app to hear from even more Affiliates!).

- **Association for Environmental Impact Assessment of Nigeria** (AEIAN)
- **IAIA-South Africa** (IAIAsa)
- **New Zealand Association for Impact Assessment** (NZAIA)
- **Ontario Association for Impact Assessment** (OAIA)

Tables are provided in Exhibit Hall A for IAIA members to display information, distribute conference papers, or announce/distribute non-commercial items. Delegates must attend the conference to display materials. IAIA reserves the right to remove documents or materials without notice.

Only official exhibitor posters and/or technical posters approved by the Program Committee during the review process may be displayed.

A

Abe, Asahi 19
Adalsteinsdottir, Heida 17
Ahmed, Nazia 38
Alizar, Aldi M. 31
Amiri, Shima 39
Amoyaw-Osei, Yaw 37
Anderson, Conor 24
An, Junyeong 39
Araya, Gino 36
Archibald, George 28
Arko, Tara 16
Arnold, Lauren 31
Aryeetey, Henry Nii 34
Asami, Yuri 18
Asante-Addai, Aaron 26
Asante-Owusu, Rachel; 35
Ashenhurst, Amber 21
Atleo, Tara 24
Atlin, Cole 23
Avila, Amy 25

B

Bajina, Kerman 33
Barnett, Mark 15
Barton, Nina 31
Baumgartner, Manikshaq 29
Bedard, Justin 30
Bergamini, Kay 37
Berkas, Fikret 28
Bizhani, Golnoosh 26
Blakley, Jill 33
Bobbio, Emanuele 16
Bohlken, Frank 27
Boling, Edward 24
Bouche, Clémentine 32
Braun, Nathan 16
Bridge, Gwen 24
Brisson, Geneviève 19
Brodbeck, Chantal 39
Brodeur, Caroline 37
Broomfield, Sage 26
Brown, Carolyn 17
Brown, Glenn 34
Brown, Suzanne 37
Burack, David 21
Burdett, Tanya 19
Bynoe, Paulette 21

C

Campbell Gale, Holly 31
Campos Viana, Frederico 18
Canoura, Miguel 18
Cardin, Paul-Antoine 34
Cartwright, Alissa 33
Casermeiro, Miguel Ángel 23
Catchpole, Simon 20
Cavanna, Valentina 18
Cave, Ben 32
Chetkiewicz, Cheryl 23
Chinweze, Chizoba 28
Chitakira, Munyaradzi; Pundo 36
Cisneros Menchaca, Alex 32
Clements, Micheel 28
Coccola, Carley 25

Index of presenters

- Cohen, Nicolas 31
Collison, Ben 22
Cote, Gisele Eva 28
Coulson, Jessica 34
Coulton, Daniel 33
Courtenay, Simon 25
Cousins, Debbie 26
Coutinho, Miguel 30
Cricenti, Giulia 19
Croal, Peter 36
Cumming, Katherine 25
Curtis, Ian 24
- D**
Dahal, Milan 29
Dakan, Lindsay 39
Dalal-Clayton, Barry 30
Darling, Sam 20
Davis-Alphonse, Chastity 28
Derkum, Sonja 38
Deshpande, Paritosh 15
Devaporihartakula, Chochoe 17
Dietler, Dominik 19
Doelle, Meinhard 22
D'Onofrio, Rebecca 16
Doucette, Paula 25
Douglas, Margaret 19
Durand, Giovanna 39
- E**
Eagles, Kathryn 23
Edema George, Taako 30
Edwards, Steve 35
Ehrlich, Alan 37
Ellis, Jeanne 36
Elsasser, Sarah 29
Esteghamat, Mina 28
Evans, Julie 30
Eyre, Marcus 34
- F**
Fairbairn, Catherine 34
Fernandes, Maria da Luz 19
Fernández-Dávila, Gabriela 27
Fineran, Stacey 17
Fitzpatrick, Patricia 22
Forrest, Joel 16
Freeman, Jeremy 29
- G**
Gagnon, Eric 26
Garba, Mohammed 38
Garcia Sanchez-Colomer, Manuel 18
Gayoso-Haro, Vilma 30
Gerrard, Michae 20
Giberti, Veronica 38
Gislason, Maya 32
Gomez Wichtendahl, Carla 19
Gorber, Don 14
Graham, Tasman 16
Grant, Allison 16
Greenwood, Julie 31
Gregory, Gillian 23
Guillemette, Christina 20
Guldin, Greg 29
Gulis, Gabriel 32
Gunton, Cameron 21
- Gunton, Thomas 21
Guth, Erica 26
- H**
Haalboom, Bethany 18
Habineza, Alphonse 21
Han, Leah 19
Hanna, Philippe 32
Hanson Main, Amanda 30
Haque, C. Emdad 35
Hardy, Ruth 24
Harlos, Erin 25
Hartling, Jay 15
Hart, Tracy 36
Hazell, Stephen 17
Hébert, Jean 29
Herbert, James 33
Hex, Jacqui 21
Hilditch, Tom 28
Himelright, Justin 16
Hiraga, Eri 24
Holland, Twyla 35
Hoogeveen, Dawn 32
Horvath, Celesa 14
Houston, Adele 23
Hovsepian, Donna 15
Howard, Pippa 35
Hubert, Chuck 24
Hubert, Edwin 37
Hudson, P.E. "Pam" 24
- I**
Ignace, Lawrence 37
Inglis, Julian 28
Issa, Lookman 21
- J**
Janzen, Darren 34
Jenkins, Bryan 18
Ji, Min Kyu 39
Jiricka-Purrer, Alexandra 18
Johnston, Anna 23
Joseph, Chris 21
Joyce, Susan 20
Junod, Anne 34
Jun, Sunmin 30
- K**
Kakeway, George 28
Kalle, Heikki 24
Kelly, Charles 36
Kelly, Susan 27
Kim, Yoonji 23
King, Lucas 28
Knox, Justine 26
Koedijk, Hanneke 29
Kotagiri, Sushma 38
Kurtz, Jayson 22
Kwon, Katerina 21
Kyokuhare Muchwampaka, Anne 28
- L**
Lacroix, Deborah 37
Lavoie, Roxane 27
Leach, Bryan 33
Lepine, Melody 29
Lerner, Jackie 16
- Liebowitz, Peter 24
Loewen, Chris 15
Lombardi Garbellini, Guilherme 39
Londoño Reyes, Andrés
Leonardo 31
Longley, Hereward 22
Long, Peter 26
Loomis, John 14
Lopez, Andres 38
López Espinoza, Luis Alberto 14
Lotter-Dogru, Karien 36
Lower, Nicola 29
Lynch, Sean 22
- M**
Macera, Javier 20
MacLeod, Andrea 22
Majekolagbe, Adebayo 25
Mandai, Silvia Sayuri 34
Mansfield, Kate 37
Maron, Martine 35
Marshall, Ross 25
Martel, Marie-Claude 35
Martinez, Juan 29
Martin, Gina 16
Matheson, Jeff 34
Mathewson, Andrew 16
Mathur, Vinod 38
Mayhew, Melissa 26
McCormack, Patricia 37
McDames Jr., Ken 27
McDonald, Lindsey 20
McKie, Emily 18
McLeod Norberg, Eve 38
Mello, Gisela 19
Mendoza Sammet, Angeles 26
Mesias, Stephanie 22
Meyer, Theunis 22
Meynell, Peter-John 33
Miller, Angela 20
Miller, Brian 38
Mioska, Mary 37
Mishra, Neha (Vyas) 25
Mohamed, Sumia 39
Monash, Nathan 36
Montour, Ross 25
Moore, Peter 35
Moore, Wesley 22
Moreira, Sergio 31
Mortara, Simone Fortunato 32
Mullard, Zoe 26
Mun, Hansol 30
Murayama, Takehiko 30
Musetsho, Khangwelo Desmond 26
- N**
Namara, Justin 14
Nare, Clemence 19
Nelson, Peter 17
Ngo, Marian 36
Nguyen, Quy Nghi 14
Nicolau, Denise 19
Nikolakis, William 24
Niksirat, Pantea 23
Nishikizawa, Shigeo 30
Nishima-Miller, Jef 27
- Nita, Andreea 18
Niyommaneerat, Wilailuk 30
Nordquist, Dave 33
Nuesink, Jan 14
Nunes Ramaldes, Luisa 18
- O**
O'Brien, Jesse 30
Ollson, Christopher 32
Olson, Rachel 32
Onwughara, Izuchukwu 33
Orenstein, Marla 25
- P**
Palomeque, Mariel 38
Paredes, Alvaro 14
Park, Hyemin 30
Paul, Maya 31
Pauzñ, Marc 15
Pérez Chaves, Pablo 26
Pérez, Cristian 37
Pleizier, Jonathan 26
Pñschel Hoeneisen, Nicole 35
Pope, Jenny 19
Poulton, David W. 34
Prince, Annie 23
Prystay, Ward 23
- R**
Rais, Bitá 31
Raissiyani, Behzad 38
Rajapakse, Nadeera 25
Rajvanshi, Asha 25
Randall, Laura 23
Ravn Boess, Emilia 22
Rempel, Jeff 22
Repetto, Andrea 29
Reumers, Laurens 32
Reuten, Christian 23
Reynolds, Valancy 27
Rifkin, Will 34
Rodriguez, Edna Liliana 33
Rosa, Susana 18
Ross-Gillespie, Vere 35
Rowan, Marielle 30
- S**
Sadiq, Somia 28
Salcito, Kendyl 32
Salihi, Ramzy 36
Salus, Jill 27
Sánchez, Luis 17
Sanda, Ahmed 27
Sare, Kristine 18
Scott-Brown, Miles 14
Seagel, Tobin 24
Seale, Lorraine 34
Seeto, Phil 15
Shibata, Yuki 20
Shield, Helga 21
Silva, Filipe 36
Singh, Gerald 16
Skrzypek, Emilka 14
Smith, Trefor 27
Solaun, Leticia 29
Soto, Mlguel 37
Souza, Barbara 31, 35
- Souza Cavalcante, Aline 18
Stefov, Dana 37
St. James, Katherine 23
Stewart, Ian 17
Stoimenova, Yordanka 23
Suwanteeep, Kultip 30
Swinscoe, Julie 15
Sypniewski, Jaimlyn 37
- T**
Tafida-Isa, Maulud 17
Tamir, Irit 37
Tam, Jordan 31
Taylor, Timothy 22
Tejeda-González, Juan Carlos 33
Thomson, Ian 37
Thompson, Lyle 21
Toogood, Simon 38
Tovar Cornejo, Esteban 20
Tremblay, François 23
Tuttle, Devin 21
Tuyor, Josefo 25
- U**
Usher, Robyn 26
Utting, Tracy 16
- V**
Valencia Franke, Claudia 31
Van Buren, Aurora 14
Vdov, Olga 18
Vopni, Lauren 36
Vos, Gisa 24
- W**
Waaub, Jean-Philippe 25
Waheed, Faiza 33
Walker, Heidi 18
Walker, Melanie 27
Wall, Liz 21
Walters, Kim 16
Weaver, Sian 31
Webster, Allan 16
Webster, Sandra 33
Westwood, Alana 22
Wijeyeratne, Mokshana 25
Wilcock, Ronni 26
Wilkinson, Fraser 36
Williams, Sheila 38
Wilson, Barry 33
Wilson, Candice 29
Winkler, Mirko 33
Włodarczyk, Tomasz 14
Wright, Nicole 15
- X**
Xavier, André 36
- Y**
Yanez, Silvia 14
Yehia, Jade 32
- Z**
Zirul, Chelan 32
Zook, Lisa 15

MEETING AND WORK SPACE

Do you need to meet with colleagues? Continue a discussion? Get together with a potential business partner or client? Room 15 is available on a first-come, first-served basis; check the schedule on the room for available times and sign up.

Sometimes you have to check your email or finish the report that is overdue. Room 15 is also available for work space any time the room is not reserved for a meeting.

5-7 May | 09:00 - 17:30 | Room 15

SHARE WITH PHOTOS

Individuals who are attending technical visits are encouraged to take photos and send them to Headquarters staff for posting on IAIA's Facebook page and other uses. Please identify the name of the technical visit, the individuals pictured, and the photographer, and send your photo(s) to jack@iaia.org.

If you are posting IAIA22 photos on your Instagram, Facebook, or Twitter account, please tag #iaia22 so the photos can be collected and shared throughout IAIA as well. You can share your photos on the message board and session chat in the IAIA22 app, too!

LIVE TWITTER FEED #IAIA22

Are you keen to share your thoughts on a presentation or reflect on the day's events? Conference participants are encouraged to tweet throughout the event on the hashtag #iaia22.

INTERNET ACCESS

Free wifi is available in the meeting rooms and public spaces of the convention center.

IAIA22 CARBON OFFSET PROGRAM

IAIA continues to strongly support the need to reduce the carbon footprint around our conferences. To this end, US\$5 from every conference registration will be donated to Cheakamus Community Forest (CCF) to help offset the carbon footprint of this conference. The CCF is a joint venture with the Lil'wat and Squamish First Nations and the Resort Municipality of Whistler. Together, these three partners oversee the management and operation of the forest. The CCF management of the forest involves a significant reduction in harvesting from historical levels with decisions made locally. For further information, please see www.cheakamuscommunityforest.com.

SELFIE STATION

Make it memorable! Stop at the IAIA22 selfie station and commemorate your conference event with colleagues, family, and friends by sharing your selfie on Facebook, Instagram, Twitter (#iaia22), and on the IAIA22 app message board. Or email your photos to IAIA (jack@iaia.org) for conference proceedings, IAIA's Facebook page, and more!

Sponsored by IAAC.

VIDEO/AUDIO POLICY

To foster sharing of information and open discussions, IAIA encourages presenters and panelists to speak freely and respectfully share their knowledge and experiences. During technical sessions, individuals are not permitted to record with personal audio or visual equipment or other recording devices such as cell phones, cameras, or recorders, without permission from the speaker.

Any media attending the event will be designated with a "MEDIA" name tag. Media will be allowed to take photographs, notes, and interviews, but video/audio recording by media will be allowed only during the opening and closing plenaries. Any recording by media during technical sessions requires prior permission from the speaker.

By attending the conference, you agree to allow your image to be used by IAIA.

BUSINESS SERVICES

To avoid costs which would necessarily be passed on to delegates in the form of higher registration fees, IAIA does not provide copying, printing, computers or other business services or equipment.

Please plan to arrive prepared, or contact your hotel to ensure that it offers any facilities you need.

PAYMENT AND REFUND POLICIES

IAIA refunds registration fees upon written request received before 13 April 2022. A US\$125 processing fee will be retained. After 13 April, no refunds are issued for cancellations or no-shows. Substitutions for paid registrants may be made in writing without financial penalty. Refunds are issued after the conference.

INSURANCE AND LIABILITY

IAIA, the organizing committee, and the venue will not be responsible for medical expenses, accidents, losses or other unexpected damage to property belonging to conference participants, either during or as a result of the conference and during all tours and events. Participants are strongly advised to arrange their own insurance for health and accident, lost luggage and trip cancellation.

ACCESSIBILITY

Attendees with a disability and/or special accessibility needs were asked to contact IAIA HQ by 13 April to make arrangements. If you have a disability and/or have special accessibility needs and require assistance, please advise IAIA staff at the registration desk. However, we cannot guarantee accommodation of requests made on-site.

ANTI-HARASSMENT POLICY

IAIA is committed to providing a safe and harassment-free conference/event experience for everyone. IAIA does not tolerate harassment of, or by, conference/event participants or invitees in any form. Conference/event participants violating these rules may be sanctioned or expelled from the conference/event without a refund at the discretion of IAIA. IAIA also reserves the right to report the incident to relevant authorities. IAIA's anti-harassment policy and information on how to file a report can be found at <https://conferences.iaia.org/2022/anti-harassment-policy.php>.

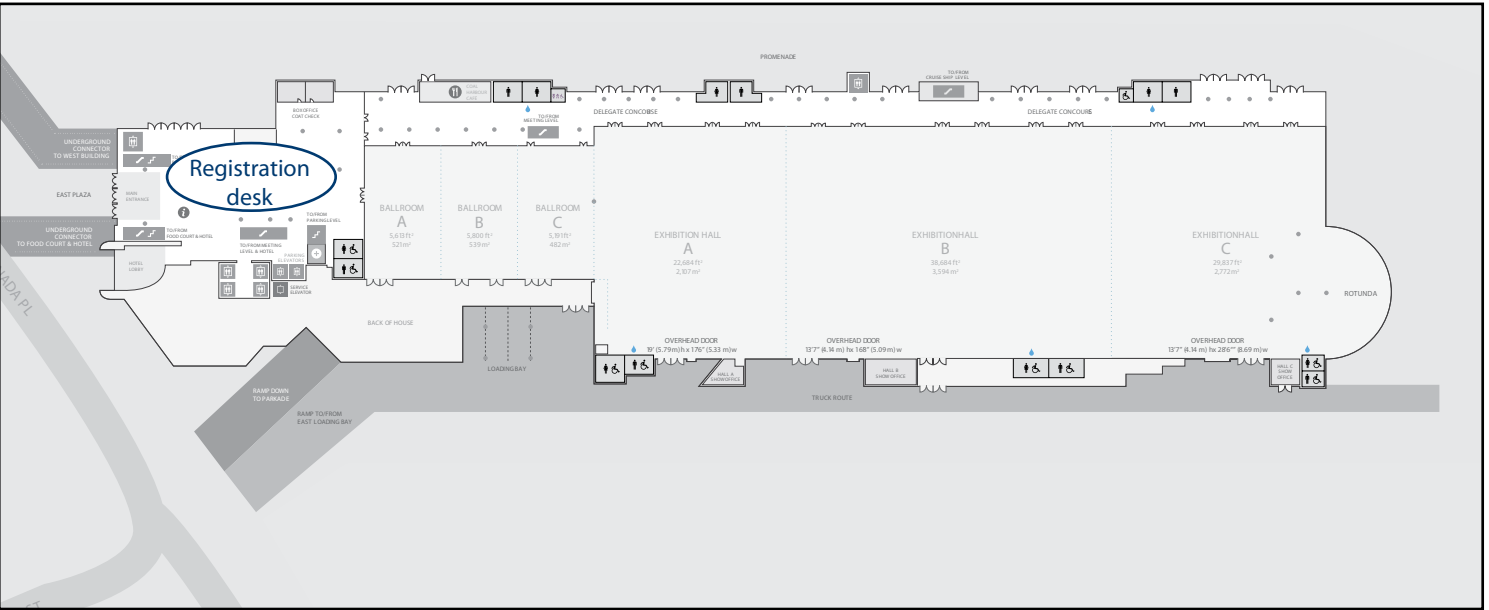
SUSTAINABLE CONFERENCES

IAIA takes the following steps and many more to mitigate the impacts of our conferences:

- Limit printed materials; communicate via e-mail and Web to the extent practical and possible.
- Contract with venues that participate in green programs (e.g., hotels that provide a linen and towel reuse program).
- Use bulk servings and pitchers rather than individual bottles; use china and silverware rather than disposables.
- Participate in a carbon offset program.



Meeting Level (first floor)



Convention Level (ground floor)

We appreciate the work of these volunteers who made this conference possible.
If you meet one of them, please take a moment to say thank you!

ABOUT IAIA

The **International Association for Impact Assessment** was organized in 1980 to bring together researchers, practitioners, and users of various types of impact assessment from all over the world. IAIA members number over 1,000 from 100+ countries, with a reach extending to 5000+ including our 15 Affiliates around the world. IAIA activities are carried out locally and regionally through its extensive network of affiliates and branches.

IAIA's Vision: IAIA is the leading global network on best practice in the use of impact assessment for informed decision making regarding policies, programs, plans and projects.

IAIA's Mission: To provide the international forum for advancing innovation and communication of best practice in all forms of impact assessment so as to further the development of local, regional, and global capacity in impact assessment.

IAIA's Values: IAIA promotes the application of integrated and participatory approaches to impact assessment, conducted to the highest professional standards.

IAIA believes the assessment of the environmental, social, economic, cultural, and health implications for proposals to be a critical contribution to sound decision-making processes, and to equitable and sustainable development.

IAIA is committed to the promotion of sustainability, the freedom of access to information, and the right of citizens to have a voice in decisions that affect them. When we assess the impact of policies, plans, programs, or projects, we promote the free flow of complete, unbiased and accurate information to decision makers and affected parties. We believe that impact assessments should be inclusive and comprehensive, addressing the broader social and health impacts as well as any impacts on the biophysical environment. Respect for human rights and human dignity should underpin all assessments. We acknowledge that we have a duty of care to both present and future generations.

ABOUT THE HOST

The **Environmental Assessment Office** is a neutral regulatory agency of the Government of British Columbia, Canada, responsible for assessing the effects of major projects, which includes sustainability and Indigenous reconciliation (www.eao.gov.bc.ca).

xʷməθkʷəy̓əm (Musqueam), Skwxú7mesh Ḱxwumixw (Squamish), and səliłwətał (Tsleil-Waututh) are collaborative partners and the three host nations for this event.

CONFERENCE CHAIRS

Elenore Arend
Mike Shepard

INDIGENOUS HOST NATIONS STRATEGIC COORDINATION GROUP

Elenore Arend
Scott Bailey
Michele George
Arthur Macapagal
Kris MacLellan
Heather Noble
Mack Paul
Sarah Plank
Tiffany Robinson Recalma
Mike Shepard
Melanie Walker

PROGRAM COMMITTEE

Meaghan Hoyle (Chair)
Kris MacLellan (Chair)
Celesa Horvath (Technical Sub-Committee Chair)
Jennifer Campbell (Plenary Sub-Committee Chair)
Genevieve Martin (Technical Visits Sub-Committee Chair)
Lyle Thompson (Networking Sub-Committee Chair)
David Bancroft
Megan Barnes
Steven Begg
Jody Bremner
Glenn Brown
Jennifer Campbell
Gabriel Castillo
Melanie Demers
Patrick Duffy
Kevin Hanna
Aaron Hynes
Catherine Kerr-Smith
Lindsay Luke
Andrea Macleod
Mabel Martinez-Dusan
Brian Miller
Kate Moss
Heather Noble
Marla Orenstein
Charlie Palmer
Rachel Pennell
Lisa Pourlak
Matthew Rodgers
Yordanka Stoimenova
Bethany Thiessen
Robin Sydneysmith
Wish Yen

LOGISTICS AND LOCAL ARRANGEMENTS COMMITTEE

Heather Noble (Chair)
Leith Anderson
Chantal Arnold
Jewel Cabaltera
Sarah Duggan
Stasia Ferbey
Carly Greene Hill
Jessie Hannigan
Julie Lowry
Jeff Matheson
Terry Pratt
Mary Rathbone
Bailey Spiteri
Wish Yen

SPONSORSHIP COMMITTEE

Elenore Arend (Chair)
Scott Bailey
David Bancroft
Jasmine Birk-Bhagal
Nathan Braun
Sabrina Loiacono
Kris MacLellan
Takehiko Murayama
Heather Noble
Tiffany Robinson Recalma
Cindy Rose
Mike Shepard
Ward van Proosdij

PUBLIC RELATIONS COMMITTEE

Kris MacLellan (Chair)
Tiffany Robinson Recalma
Scott Bailey
Nathan Braun
Marissa Harfouche
Sabrina Loiacono
Heather Noble
Sarah Plank
Josh Thompson
Mike Shepard

COMMITTEE MANAGER

Heather Noble

COMMITTEE COORDINATORS

Kris MacLellan
Tiffany Robinson Recalma

THE ONLY INTERNATIONAL, INTERDISCIPLINARY, EDUCATIONAL CONFERENCE DEDICATED TO ADVANCING THE ART AND SCIENCE OF IMPACT ASSESSMENT!

IAIA gratefully acknowledges these companies and organizations for their generous financial and in-kind support of IAIA22.

By sharing their resources, these companies and organizations demonstrate their commitment to the environment and contribute to the improvement of impact assessment around the globe.

When you meet a representative of these sponsors, at the conference or in the months ahead, please be sure to thank them for their contributions.

Sponsors have no explicit nor implied right to influence the conference program. Program elements contributed by sponsors are reviewed and monitored by the Program Committee.

CONTINENT SPONSORS



ISLAND SPONSORS



Impact Assessment
Agency of Canada

Agence d'évaluation
d'impact du Canada



Conference venue

Vancouver Convention Centre east (VCC)

999 Canada Place
Vancouver, BC V6C 3C1 Canada
www.vancouverconventioncentre.com

REEF SPONSORS

- Ausenco
- British Columbia Environmental Assessment Office
- Ecofish Research Ltd.
- European Investment Bank
- Global Container Terminals
- Nauru Ocean Resources, Inc. (NORI)
- PRIZMA
- Stantec
- Vancouver Fraser Port Authority
- Ventus Development Services Inc.

CAPACITY BUILDING PARTNER



IAIA would like to thank the generous supporters of the IAIA22 Conference Inclusiveness Bursary which was responsible for funding over 50 Indigenous and First Nations delegates: **Impact Assessment Agency of Canada, Ventus Development Services, Inc., Ecofish Research Ltd., and ERM.**



IAIA
International Association
for Impact Assessment

Headquarters Office
1330 23rd Street South, Suite C, Fargo, ND USA
+1.701.297.7908

Executive Office
1200 18th Street, Suite 700, Washington, DC USA
+1.202.760.5340

info@iaia.org | www.iaia.org