

Training courses

9-10 MAY 2016

IMPORTANT DATE: 14 MARCH

Please register early! Courses will be cancelled if they do not reach the minimum number of paid participants by 14 March 2016.

In consideration of the trainers and their need to prepare appropriate quantities of course materials, registrants may not change courses after 18 April.

Reminder: *IAIA advises delegates to plan ahead: prepare and apply for visas and all other travel documents early.* Please apply for your visa at the same time as you send your conference registration to ensure that your visa is received in time for the conference.

ABOUT TRAINING COURSES

IAIA pre-conference training courses are presented primarily by IAIA members. The courses are open to all participants but require advance registration and payment.

IAIA16 pre-conference training courses will be held from 09:00 - 17:00 on Monday, 9 May, and Tuesday, 10 May. The courses will be held at the congress center.

IAIA's 2-day courses cost US\$475. This fee includes course materials, light lunches, and coffee breaks. Participants in the training courses who are not registered for the IAIA conference will be assessed an additional US\$75 fee. Course fees must be paid in full before you will be enrolled in the training course.

Please register early! Courses will be cancelled if they do not reach the minimum number of paid participants by 14 March 2016.

Minimum/maximum class sizes are noted. If the training course for which you have registered does not meet the minimum number by 14 March, IAIA HQ will notify you and provide refund information or offer to transfer you to another course. Course registration after 14 March is possible but is subject to availability, instructor consent, and receipt of payment.

If you must cancel, your course registration fee will be refunded minus a US\$125 administrative fee and contingent upon a written notice of cancellation received at HQ by 18 April 2016. After 18 April, no refunds will be issued.

Check-in for the training courses will be available at the IAIA registration desk in the congress center. Registration desk hours will be posted in the final program. Name tags will be distributed at check-in and are required for admission to courses. Check-in the day before your course begins is encouraged.

For more detailed descriptions of the courses, including background information on instructors, see the IAIA Web site (www.iaia.org > IAIA16).

STUDENT TRAINING COURSE FEE WAIVERS

A limited number of free training course registrations are available to student participants of IAIA16 once courses reach their minimum paid enrollments. If you are interested, please send your name, a 300-word statement of interest explaining how the chosen training course could contribute to your research or student career, and first and second course choices to impact@iaia.org by 8 April 2016. Allocations of the free training course slots will be made by 14 April 2016, based on the order in which the requests were received and subject to instructor approval.

1 HUMAN RIGHTS AND IMPACT ASSESSMENT

This two-day, intermediate level master class outlines the human rights issues associated with large projects (with an emphasis on the extractive industries), and provides participants with practical ways to operationalise the corporate responsibility to respect human rights as established in the United Nations Guiding Principles on Business and Human Rights, which were developed by Prof John Ruggie (who received the IAIA 2014 Global Environment Award).

Communities living in conflict and post-conflict countries, as well as areas affected or recovering from natural and industrial disasters, are often exposed to violations of their human rights, which affects the magnitude of the impacts received and the possibility of recovering from the crisis and compromises a socially sustainable future. The course seeks to bring human rights issues into the impact assessment field of practice and, by using integrated impact assessment methods, will provide an effective way to identify the human rights issues of projects and the scenarios where projects are developed.

This master class is designed for practitioners involved in the impact assessment of private sector projects who have some understanding and knowledge of social impact assessment methodologies and practice and who want to increase their knowledge of human rights issues. This can include: those individuals within companies or institutions (e.g. financial institutions) who are responsible for commissioning and overseeing impact assessments; and internal and external practitioners that carry out impact assessments. The course has been developed as a partnership between the Danish Institute of Human Rights and the Community Insights Group.

Level:	Intermediate/Advanced
Prerequisites:	There is no specific prerequisite; however, it is presumed that participants will have a general understanding of impact assessment.
Language:	English
Duration:	2 days (9-10 May)
Min/Max:	10-30
Instructors:	Nora Götzmann , Advisor, Danish Institute for Human Rights (Denmark) Ana Gabriela Factor , Consultant, Community Insights Group (Denmark)

2 INTEGRATING ECOSYSTEM SERVICES INTO DEVELOPMENT PLANNING (IES) – A TRAINING FOR IMPACT ASSESSMENT PRACTITIONERS

Environmental impact assessments (EIA) and strategic environmental assessments (SEA) are increasingly applied in developing countries to aid development planning. Many assessments, though, are still lacking a comprehensive identification and analysis of ecosystem services (ES), despite a growing consensus amongst scientific literature that the benefits of ES to human well-being can hardly be overstated and should be integrated into plans and strategies. At the same time development financiers like IFC requires ES analysis within project EIAs to qualify for loans. This could become more widespread and with this training we seek to prepare IA practitioners for this situation.

Improving ES assessments in IA by determining impact and dependencies of human activities on ES provides practitioners with arguments to better convey the importance of ecosystems to relevant decision-makers. Moreover, it allows identifying potential unintended negative consequences of an activity that might otherwise be overlooked and thus helps to strengthen the resilience of ecosystems and long-term viability of developments and plans.

In this training we showcase the '6-Step approach', which offers a guide to assess ES in project and plans. Participants will also be introduced to specific instruments and methods via the ValuES Inventory of Methods (www.aboutvalues.net).

The training applies the Harvard Case Methodology. A series of exercises build around a fictitious case study, coupled with input lectures from the trainers, will help participants to understand materials and content. Over the last 4 years the IES-training has been conducted over 80 times in developing countries and in Germany. Experience in conducting IA and a basic understanding of natural systems and its functions are prerequisites for this intermediate level course.

Level:	Intermediate
Prerequisites:	Basic understanding of ecosystem functions and ecological concepts.
Language:	English
Duration:	2 days (9-10 May)
Min/Max:	10-19
Instructors:	Ulrike Tröger , Advisor, ValuES project, Deutsche Gesellschaft für internationale Zusammenarbeit (GIZ) (Germany) Isabel Renner , Freelance Consultant (Germany)

3 MAINSTREAMING BIODIVERSITY IN IMPACT ASSESSMENT FOR PROMOTING RESILIENCE AND SUSTAINABILITY

The quote "Nature is the foundation of business. Ecology sets the rules for economy. Thus, damaging nature is damaging business. Like cutting the branch we sit on" assigns the tremendous importance to conserving biodiversity. Yet, there are compelling evidences to suggest that biodiversity is being adversely impacted due to unsustainable use and other profound causes linked to our development models. As a consequence of unsustainable use of natural resources, combined with the needs of a growing global population and climate change is seriously jeopardizing the health of our ecosystems and resulting in biodiversity decline. Biodiversity must therefore be tackled together by integrating relevant concerns into the decisions and institutions and that drive development— a process known as 'mainstreaming'.

Sustainability and resilience thinking are both globally relevant concepts that signal conservation of nature in its entirety for reducing poverty, creating sustainable livelihoods, promoting economic growth and tackling climate change. EIA offers opportunities to mainstream biodiversity to promote transformational change in attitudes and responsibilities that can link seemingly incompatible elements such as sustainability and development and improve preparedness for climate change.

This two-day course focuses on improving the role and scope of IA for connecting the dots between biodiversity, sustainable development, human well-being and climate change. For IA professionals, the course will share practice to harness the power of natural solutions to enhance livelihoods, sustain economies and build resilience to a changing climate. Business groups will better understand why they must pay for biodiversity conservation as a debt for destruction from past actions and as dues for drawing from the nature in future. For economists, the course re-emphasises that economy is just a subset of the ecological system. For decision-makers, the course will highlight the consequence of 'biodiversity-blind' development intervention and help them make informed decisions related to ecosystem management.

Level: Intermediate/Advanced. This is a course for EA professionals including trainers, practitioners, development planners, business groups, conservation community, decision-makers, donor agencies and economists.

Prerequisites: Participants should have basic understanding of the ecological concepts and sustainability principles.

Language: English

Duration: 2 days (9-10 May)

Min/Max: 10-30

Instructors: **Asha Rajvanshi**, Ph.D., Senior Professor and Head, Wildlife Institute of India (India)

Vinod.B. Mathur, Ph.D., Director, Wildlife Institute of India (India)

4 HOW TO MAXIMIZE THE VALUE AND EFFECT OF SOCIAL IMPACT ASSESSMENT

This SIA Training Course is tailored for a cross-sector audience on the requirements, benefits, challenges and technical approaches of delivering effective SIA processes. The training will focus on the practical skills, critical thinking, alternative approaches, and influence and effect needed to deliver high quality SIAs which have relevance for project decision making. The course will be based on real experiences, IAIA's International Principles for SIA and best evolving practice, and will be facilitated by industry experts with 15+ years of international experience. Teaching methods will be highly interactive and reflective, with a strong emphasis on case study analysis and workplace application.

The training is targeted at individuals that are either relatively new to the practice of SIA, and/or those that are wanting to improve the effectiveness of their current SIA practice. There will be particular emphasis upon:

- Key analytical and practical skills required for an effective SIA;
- Managing the limitations and maximising the opportunities of SIA;
- Emerging trends and pressures that are shaping the requirements and face of the SIA process;
- Using the SIA process to improve the quality of decisions made, and as a basis for relationship building; and
- The role of SIAs as a foundation for the development of a broader social management system, suitable for application during subsequent project phases.

Learning outcomes will include:

- Deeper awareness of the opportunities and limitations of SIA;
- Improved ability to build a fit for purpose SIA process that delivers the best outcomes especially in complex contexts;
- Improved competency in a number of core skills that directly influence the ability to maximize the value of SIA on the ground;
- Linking the SIA process and outcomes to integrated impact management and quality project decision making;
- Understanding of the process, methodologies and importance of stakeholder engagement during SIA.

Level: Intermediate

Prerequisites: It is not expected that the participants have extensive experience of SIA or impact assessment processes. This course will appeal to individuals that are relatively new to the practice of SIA, and those that are wanting to improve the effectiveness of their current SIA practice. The course will not be of sufficient value to individuals that have extensive or strong practical experience of SIA, and who have found ways of overcoming the obstacles related to the assessment process.

Language: English

Duration: 2 days (9-10 May)

Min/Max: 10-30

Instructors: **Alison McCallum**, Technical Director, Training, Synergy Global Consulting Ltd (South Africa)

Katharine Gotto Walton, Director, Synergy Global Consulting Ltd (United Kingdom)

5 ORGANIZED REASONING AND ENVIRONMENTAL IMPACT ASSESSMENT

Environmental impact assessment (EIA) constantly uses reasoning to reach conclusions. That process is called 'argument'. Not argument meaning 'quarrel', but argument meaning a series of reasons, leading to conclusions, targeted for a specific audience. Most professionals are not formally trained in organized reasoning. Therefore they do not know there are many techniques of argument that organize ideas to help an audience better understand the reasoning in written presentations. Assessments are complex documents. Using the tools of argument can make them easier for audiences to understand. And easier for authors to write!

This two-day workshop will share guidelines for organized reasoning. These guidelines apply to all professional technical writing, but this workshop specifically targets the challenges of EIA. This is an intermediate level workshop. Participants should have experience participating in writing one or more assessments. They should have some experience with the difficulties of preparing an assessment and of challenges that come from the reactions of different audiences to assessment documents.

The workshop shows how written EIA documents contain common errors in their arguments. We will distinguish three different kinds of argument that technical writing and EIAs contain and two different approaches to making arguments. Participants practice assembling evidence and reasons for each kind of, and approach to, argument. We show several steps, and introduce some computer-based tools, that bring better argument into technical report writing. At the end, participants will have a new perspective on how to write technical reports and EIAs, and several new techniques they can use on the job.

Level:	Intermediate
Prerequisites:	Previous participation in preparing and writing IA documents.
Language:	English
Duration:	2 days (9-10 May)
Min/Max:	10-24
Instructor:	Glen Brown , Ph.D., Independent Consultant and Associate Faculty, Royal Roads University (Canada)
Special Note:	Although not required, a laptop computer will be helpful for one of the exercises.

6 QUALITY ASSURANCE IN EIA: GUIDE AND REVIEW

This two-day course will combine lectures delivered by the trainers, general discussions and individual and group work (see next page for course outline). It will have two main parts: the first will provide the delegates with insights into how the EIA process should be guided. This will include aspects such as writing terms of reference, adjudicating proposals from consultants and how to provide oversight to the whole EIA process. Examples from recent projects will be used to highlight the learning points.

The second part will deal with review. This will include methods and frameworks that can be used to review scoping, EIA and EMP reports; key questions to be asked and how to make decisions on the information provided in the documentation. Again, we will use examples from some of the many projects we have been involved with over the past few years.

The learning outcomes will include:

- Participants will have a better appreciation and confidence about how to guide and review large and small EIAs;
- Participants will be provided with some tools (templates, criteria, frameworks, decision-trees) to write ToRs, run a tendering process, adjudicate proposals, manage the entire EIA process and review the documentation;
- Participants will be made aware of common pitfalls and how to deal with them.

Level:	Intermediate/Advanced
Prerequisites:	This course is primarily aimed at decision-makers and corporate EIA managers who are responsible for setting Terms of Reference, adjudicating EIA proposals and reviewing the final documents. Therefore the participants must be in positions where they carry out these tasks. They need to understand the EIA process and legal requirements.
Language:	English
Duration:	2 days (9-10 May)
Min/Max:	10-35
Instructor:	Peter Tarr , Ph.D., Executive Director of the Southern African Institute for Environmental Assessment (Namibia)
Special Note:	Each participant needs to bring a laptop.

7 RESILIENCE ASSESSMENT TOOLS FOR INTEGRATING COMPLEXITY AND UNPREDICTABILITY WITH IMPACT ASSESSMENT AND PLANNING

Strategic Environmental Assessment (SEA) is commonly regarded as a tool to predict the consequences of planned development. The underlying assumption of predictability is valid for engineering projects in the built environment, but not for projects that modify the natural environment. For example, the construction of dams and levees to generate hydropower and control river flow are affected by the interactions between people and nature in the river catchment. Such interactions can have unpredictable chain-reaction impacts on plants, soils and river flow that may compromise the design of engineered structures, leading to the surprising collapse of systems that were believed to be stable. Resilience assessment takes into account the changes arising from complex interactions between people and nature resulting in development interventions based on a model of change that recognizes the risk of undermining environmental stability. Integration of resilience assessment with SEA has the potential to improve long-term environmental stability and sustainability.

This resilience assessment course provides foundational level training for SEA practitioners who want to learn about resilience assessment and how it can be integrated into SEA. The course is built on workshops held at the IAIA Geneva conference in 2010 and at the IAIA SEA conference in Prague in 2011. Both of these events led to publications that explored the potential of resilience thinking and assessment to improve SEA practice by addressing the unpredictability that arises from complexity. Knowledge gained from these learning initiatives within the IAIA SEA community are supplemented with experience gained from resilience training workshops held in other contexts to develop a training course for the IAIA SEA community.

Anticipated learning outcomes are:

1. The difference between complex and ordered systems and implications for planning, assessment and management
2. Resilience concepts and metaphors for environmental change in the context of long-term sustainability
3. Use of resilience thinking heuristics for resilience assessment.
4. Integrating resilience assessment in SEA.

Level:	Foundation
Prerequisites:	Basic knowledge of SEA required.
Language:	English
Duration:	2 days (9-10 May)
Min/Max:	10-35
Instructors:	Roel Slootweg , Ph.D., SevS human and natural environment consultants (The Netherlands) Mike Jones , Swedish Biodiversity Centre (Sweden) and Wallowa Mountain Institute (USA)

8 ONE TERM – VARIOUS MEANINGS: SEA THEORY AND PRACTICES

Strategic environmental assessment (SEA) of policies, plans and programmes (PPPs) is often perceived as the big brother of project environmental impact assessment (EIA). However, ultimately, it is a term which has a range of different meanings and applications that go beyond the scope of EIA. This two-day short course will provide an overview of various interpretations and applications of SEA from various systems. The main aim is to help participants choosing the 'right' SEA approach for a specific PPP situation and to raise an awareness of what SEA may and what it actually is achieving.

This course is suitable for regional and local authority representatives and consultancies working in a regional and local context. Furthermore, students that are enrolled in a relevant degree and also teachers/lecturers of environmental management, planning and assessment would be welcome. The focus is on what is considered best practice internationally, and a wide range of international case studies are presented and discussed.

Level:	Intermediate
Prerequisites:	Some basic knowledge of environmental assessment (EIA and SEA).
Language:	English
Duration:	2 days (11-12 May)
Min/Max:	10-20
Instructor:	Thomas B Fischer , PhD FIEMA, Professor, University of Liverpool (United Kingdom)

9 STATE OF THE ART SUSTAINABILITY ASSESSMENT

The purpose of this intermediate level course is to provide participants with practical skills in the development and implementation of sustainability assessment processes, as well as insights into recent research that is shaping sustainability assessment practice now and into the future. This course features short lectures (conceptual and case study-based) interspersed with open discussions and individual and small-group activities.

Sustainability assessment, broadly defined, is a process for directing decision-making towards sustainability. While sustainability assessment can be applied in many different contexts by different types of decision-makers, this course will focus on forms of sustainability assessment that are aligned with ex ante impact assessment principles and practices. It is therefore of relevance to regulators, proponents, government agencies, consultants and anyone interested in aligning planning and decision-making with sustainability.

The course content includes:

- Evolution of sustainability assessment, the spectrum of sustainability assessment practice and links to other impact assessment processes;
- Understanding sustainability: normative and systemic dimensions and what they mean for sustainability assessment;
- Processes for sustainability assessment;
- Challenges in sustainability assessment;
- Addressing the challenges: Emerging tools and techniques for sustainability assessment.

Participants will develop an understanding of:

- Different understandings of sustainability and how they are reflected in sustainability assessment practice internationally;
- How sustainability assessment relates to other forms of impact assessment;
- How to develop and implement context-specific sustainability assessment processes;
- Challenges in sustainability assessment and how to address them in practice;
- Emerging methods and tools for sustainability assessment;
- The state of the art and future directions for sustainability assessment.

Level: Intermediate

Prerequisites: Participants are expected to have an understanding of IA processes and terminology. Hence it would be beneficial if they previously have attended an introductory IAIA training course or otherwise have at least a year of work experience as a consultant, proponent or regulator within an IA system, or be a student with at least 6 months taught or research experience of some aspect of IA.

Language: English

Duration: 2 days (9-10 May)

Min/Max: 10-60

Instructors: **Angus Morrison-Saunders**, Associate Professor in Environmental Assessment, Murdoch University (Australia)
Jenny Pope, Director, Integral Sustainability (Australia)
Alan Bond, Senior Lecturer in Environmental Management, School of Environmental Science, University of East Anglia (United Kingdom)

Special Note: Course materials will be provided to participants in electronic format at the commencement of the training course. Participants should bring their own laptop computer if they wish to access these materials during the course.

10 STRUCTURAL METHODS FOR MULTI-HAZARD RISK REDUCTION IN PROTECTED CENTRAL AREAS OF CITIES

There is a strong concern worldwide about the city's resilience to multi-hazards, and the patrimony protection is a major objective in the General Strategy for Risk Reduction promoted by the UN and UNESCO. Around the world, there are various cities with protected central areas particularly exposed to earthquakes. The proposed strategies for patrimony protection are based on a complex risk analysis including the mapping of multi-hazard exposed elements.

This course allows students to understand the background and application of structural methods for risk reduction, in line with the priorities of UN-ISDR and the Sendai/Hyogo Framework. Presenting a useful methodology for students, researchers, or specialists, the course gives the ability to manage risk prevention in preserved urban areas of cities, with high applicability in Japan or other countries exposed to multi-hazards.

The case studies illustrated during the course refer to Bucharest, Romania, a European capital with a vast protected central area particularly exposed to earthquakes, in comparison with several other European capitals and cities. The course is based on a complex research project, presented at several recent international conferences, highlighting a new methodology with a high possibility of application in all cities exposed to multi-hazards around the world.

This course will be structured as a lecture and workshop in five parts, ending with an interactive focus group activity:

Part 1: Learn about the general worldwide requirements for risk reduction within the concept of resilient cities

Part 2: Discuss the Bucharest case study, a built area exposed to multi-hazards, vulnerability and risk.

Part 3: Review several multi-hazard scenarios in protected areas, exposing the methodology and suggesting several structural methods for risk reduction

Part 4: Examine applied scenarios and results via maps, tables, matrix, etc.

Part 5: Apply the course guidelines to personalized, real-life scenarios in an interactive, small group setting.

Level: Intermediate

Prerequisites: Background or professional experience in architectural or urban patrimony, urban planning, administration, emergency services, engineering or urban infrastructure and services.

Language: English

Duration: 1 day (10 May)

Min/Max: 10-30

Instructors: **Cristina Olga Gociman**, PhD, Ion Mincu University of Architecture and Urban Planning (Romania)

Tiberiu Constantin Florescu, PhD, Dean of Urban Planning Faculty, Ion Mincu University of Architecture and Urban Planning (Romania)