

## Global Ecological Risk Assessment Advisory Group

### MISSION AND PURPOSE

The Ecological Risk Assessment Advisory Group (ERA AG) is an open forum that exists to serve as a scientific resource to SETAC, environmental scientists and decision makers, and society as a whole on issues pertaining to ecological risk assessment (ERA).



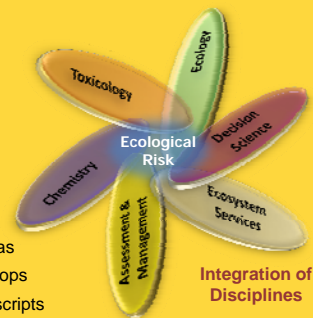
Our mission and purpose is to advance the science and use the practice of ERA as a tool to inform environmental decision making. To achieve this, ERA AG

- Serves as a neutral platform and focal point for collaborative identification, resolution, and communication of ERA issues
- Stimulates critical evaluation and discussion to establish best available science
- Provides guidance and support for effective environmental decision making
- Encourages use of best available science and approaches into ERA practices
- Encourages transfer of ERA technologies among the diverse stakeholders
- Fosters harmonization of ERA practices worldwide
- Provides a forum for knowledge transfer
- Facilitates communication of ERA issues and best science
- Encourages multi-AG working groups and liaison activities

ERA AG now has a global AG status. There is opportunity for an exciting future with a new steering committee and new members. As the global AG grows and develops, new and expanded mission will be considered.

### BACKGROUND

The integration of disciplines has been the foundation of research and discussion at SETAC since 1992 when ERA AG was formed.



ERA AG was established in 1992 and will celebrate its 20<sup>th</sup> anniversary in 2012 and was formally recognized by the SETAC World Council in October 2005.

During the past 20 years the ERA AG has

- Organized numerous Pellston Workshops
- Written 7 books and 5 series of manuscripts
- Conducted approximately 15 short courses
- Sponsored or co-sponsored over 40 platform sessions, interactive poster sessions, and debates
- Actively collaborated within SETAC to find synergies with other AGs and outside SETAC to develop bridges with other organizations, such as the Ecological Society of America
- Played an Influential role in the group that developed the SETAC journal *Integrated Environmental Assessment and Management (IEAM)* (Greg Biddinger, AG Chair from 1992 – 2002, first issue of IEAM 2004)

2004

1<sup>st</sup> GLOBAL ERA AG Meeting & 20<sup>th</sup> Anniversary (Berlin)  
 Tuesday 22 May 2012  
 18:30-19:30  
 Room ECC 2

#### Sessions:

Evaluating Human Health and ERAs in Remediation Decisions: Is the Cure Worse than the Disease? (2011) Coll. w/ HRA AG

Advances in Ecological Modeling for Assessing Ecological Risks and Ecosystem Services (2011) Coll. w/ Ecosystem Services AG

**International Workshop:** The Effects of Global Climate Change on Environmental Toxicology and Chemistry (2011)

**Global Charter:** Global Charter approved by SETAC Board of Directors

**Sessions:** Development and Use of Wildlife TRVs in ERA (2007)

ERA AG Debate – Evaluation of Uncertainty Decisions in ERA

**Workshops:** Ecosystem Vulnerability (2008)

Rec. for the Development and Application of Wildlife Toxicity Reference Values (2007-2008)

Nexus between ERA and NRDA (2008)

**International Workshop:** Population-Level Risk Assessment (Denmark 2003)

**Workshop:** Environmental Valuation and Decision-Making (2003)

**Session:** Ecological Valuation (2003)

Population-Level ERA (2003 and 2004)

**Strategic Planning:** Air Pollution Workgroup and Web Site Committee (2000)

**Session:**

ERA AG Debates- Assessing the Risks of Chemical Releases to the Atmosphere and Using Risk-Based Approaches for Water Quality Regulations and Management (2000)

Dialogue on Environmental Decision-Making Tools and Techniques (1999) Coll. w/Life Cycle Assessment AG

**Strategic Planning:** ERA AG Meeting (1995, 1996)

**Workshop:** Sediment ERA and Uncertainty Analysis in ERA (1995)

**Communication Tools:** ERA AG Newsletter and ERA AG Web Page launched (1996)

**The Ecological Risk Assessment Advisory Group (North America) was formed and first meeting was held**

#### 2012 Berlin Activities:

- 1<sup>st</sup> Global ERA AG meeting
- 1<sup>st</sup> meeting of Steering Committee (SC) volunteers and upcoming SC membership vote
- Celebration for the 20<sup>th</sup> anniversary of ERA AG
- Contribute to Ecosystem Services short course
- *Potential coll. w/Amphibians and Reptile AG: Study Designs and Data for use in ERA*
- *Build on global ERA momentum (Session RA11 Guidance and Documents for ERA)*
- *Develop collaborative vision of a Global AG*

#### 2012 Long Beach USA Activities

- 2<sup>nd</sup> Global ERA AG meeting and 20<sup>th</sup> anniversary celebration
- Sessions:**
- Mechanistic Effect Modeling for ERA Coll. w/ MeMoRisk AG and CREAM
- Spatially Explicit Exposure Modeling
- 21<sup>st</sup> Century Environmental Risk Assessment

2012

2011

2010

2009

2008

2007

2006

2005

2004

2003

2002

2001

2000

1999

1998

1997

1996

1995

1994

1993

1992

**Workshop:** Spatially Explicit Exposure Modeling (2009)

**Sessions:** Transferring Concepts between ERA and HHRA (2010) – Coll. w/ HHRA AG

The Emerging Global Concept of Ecosystem Services (2010) – Coll. w/ GES AG

Supply-Side Sustainability (2010)

Population Level ERA (2009) – Coll. with MeMoRisk AG

Making Decisions that Integrate Social-Ecological Landscapes (2009)

Spatially Explicit Exposure Modeling (2010)

**Short Course:** Sustainability (2009)

Population-Level ERA (2009 and 2010)

Natural Resource Damage Assessment (2009)

**Workshop:** Integrating ERA and Economics in Environmental Decision-Making: Fire Management Case Study (2006)

**Session:** Population-Level ERA (2005)

Impact of Uncertainty on Decisions (2006)

**Workshop:** ERA Modeling (2001)

**Session:** ERA AG Debate – How are Populations Addressed in ERA? (2002)

Application of the Precautionary Principle (2002)

**Collaboration:** Ecological Society of America and SETAC to plan Sustainability-Based Environmental Management (2001)

**Outreach:** International Life Science Inst. – Forum on ERA activities (2001)

**Workshop:** Modeling and Measuring the Vulnerability of Ecosystems at Regional Scales for Use in ERA and Risk Management (1997)

**Session:** ERA AG Debates – Environmental Ethics (1998)

**Collaboration:** USEPA Las Vegas Lab to develop Ecosystem Vulnerability Workshop (1997)

**Strategic Planning:** ERA AG session at SETAC (1992, 1993)

**Workshop:** ERA Modeling (1993)

**Collaboration:** Ecological Society of America and SETAC to plan Sustainability-Based Environmental Management

**Outreach:** International Life Science Institute/ERA AG sponsor open forum on ERA activities and ERA briefing

**Short Course:** Ecological Risk Assessment (1994)

### PUBLICATIONS

#### Books



1993 *Programs in ERA*. National Science Institute and SETAC



1997 *Sustainable Environmental Management*. Barnhouse, Biddinger, Cooper, Fava, Gillett, Holland, and Yosie (eds)

1997 *Ecological Risk Assessment of Contaminated Sediments*. Ingersoll, Dillon, and Biddinger (eds)



1998 *Uncertainty Analysis in ERA*. Warren-Hicks and Moore (eds)

1998 *ERA Decision-Support System: A Conceptual Design*. Reinert, Bartell, and Biddinger (eds)



2008 *Population-Level ERA*. Barnhouse Munns, and Sorensen (eds)

2008 *Valuation of Ecological Resources: Integration of Ecology and Socioeconomics in Environmental Decision Making*. Stahl, Kapustka, Munns, and Bruins (eds)



2000 **Manuscript Series**

2009 *Ecosystem Vulnerability. Environmental Toxicology and Chemistry*

2009 *Nexus of ERA and Natural Resource Damage (NRD) Assessment. Integrated Environmental Assessment and Management (IEAM)*



2010 *Toxicity Reference Values (TRVs) IEAM*

2011 *Spatially Explicit Exposure Models (SEEM) IEAM*



In Press *ERA and Global Climate Change (GCC) IEAM*



### STEERING COMMITTEE STATUS AND MEMBERSHIP

The ERA AG Steering Committee (SC) will be finalized with a membership vote following the SETAC World Congress. The SC will be comprised of 9 to 12 SC members. Current volunteers:

Academia	Industry	Government	NGO
Agnieszka Bendarska Poland	UK	USA	Buenos Aires
Antonio Noguera Portugal	Syngenta (Sabbatical)	US Army Institute of Public Health	Inst. of Env. Science and Health; PROSAMA
	ENVIRON International Corp	Natl. Inst. of Adv. Science & Technology	
	Dow Chemical Company	US Env. Protection Agency	
	Unilever	CSIRO Land and Water	
	ENVIRON International Corp		

ERA AG is an open group  
 New members are welcome  
 Come to the open meeting Tuesday to find out more about this AG  
 New members can also join on the SETAC Communities site  
 Or email Mary Sorensen