



*6th International Conference  
on*  
**Environmental Science  
and Technology**

- **Call for Abstracts**
- **Advance Registration**
- **Call for Free Exhibits**

*Sponsored by*  
American Academy of Sciences

**Hilton Hotel  
Houston, Texas, USA  
June 25-29, 2012**



<http://www.aasci.org/conference/env/2012>  
[env-conference@aasci.org](mailto:env-conference@aasci.org)

# **International Conference on Environmental Science and Technology**

The objective of the *Sixth International Conference on Environmental Science and Technology* will be to provide a major interdisciplinary forum for presenting new approaches from relevant areas of environmental science and engineering, to foster integration of the latest developments in scientific research into engineering applications, and to facilitate technology transfer from well-tested ideas into practical products, waste management, remedial processes, and ecosystem restoration. Reports on renewable energy research are especially desired. Environmental humanity and sociality such as environmental ethics, environmental law, environmental economy and environmental management are also included in the scope of the conference. Researchers, engineers, site managers, regulatory agents, decision-making officials, consultants, and vendors will all benefit from the opportunity to exchange information on recent research trends, to examine ongoing research programs, and to investigate world-wide public and regulatory acceptance of environmental protection and remediation technologies.

Environmental disturbance and pollution are complex problems worldwide. The current development of modern science and technology combined with management on social and economic activities are contributing more and more to solution of the problems. Although considerable environmental protection work has been and is presently being conducted, a multidisciplinary platform for environmental scientists, engineers, management professionals and governmental officials to discuss the latest developments in environmental research and applications will be very helpful for protecting our global village.

The Conference Chair is Professor George A. Sorial of University of Cincinnati, Ohio, USA. Sponsors and the participating partners of the conference will include governmental, academic, and private organizations that are international leaders in environmental research and technology applications.

## **Presentation Topics**

The Conference program will be comprised of several hundred platforms and poster presentations, organized into sessions that will address a variety of disciplines and technologies as well as contaminants. The sessions will be chaired by internationally recognized leaders in environmental sciences and technologies. The following is a tentative list of sessions; the list will be revised as necessary or appropriate during the abstract review process.

### ***01. Water Pollution and Water Quality Control***

- 01-01 Rivers, Lakes and Estuary Systems
- 01-02 Watershed Management
- 01-03 Water Resources and Assessment
- 01-04 Groundwater
- 01-05 Non-point Sources
- 01-06 Wastewater Discharge Management
- 01-07 In-Situ Measurement and Monitoring
- 01-08 Drinking Water
- 01-09 Water Quality Assessment/Management
- 01-10 Nitrogen-Phosphorus Wastewater Treatment
- 01-11 Sludge Treatment
- 01-12 Municipal Wastewater Treatment
- 01-13 Industrial Wastewater Biotreatment
- 01-14 Adsorption/Desorption for Wastewater Treatment
- 01-15 Physico-chemical Wastewater Treatment
- 01-16 Reactions and Degradation of Wastewater Contaminants
- 01-17 Nanotechnology Applications
- 01-18 Other Topics

### ***02. Air Pollution and Air Quality Control***

- 02-01 Aerosol
- 02-02 Air Quality Assessment
- 02-03 Transport of Air Pollutants
- 02-04 Waste Gas Control Techniques
- 02-05 Air Pollutant Monitoring
- 02-06 Hazardous Gas Biofiltration
- 02-07 Catalysts for Reducing Emission
- 02-08 Fuel Gas DeSO<sub>x</sub>, DeNO<sub>x</sub>, and Metal Removal
- 02-09 Air Pollution Prevention and Management
- 02-10 Noise
- 02-11 Other Topics

### ***03. Land (Soil, Solid Waste) Pollution and Remediation***

- 03-01 Contaminants in the Subsurface

- 03-02 Natural Attenuation of Contaminants
- 03-03 In-Situ Remediation
- 03-04 Solid Waste Management
- 03-05 On-site and Off-site Remediation
- 03-06 Landfill
- 03-07 Permeable Reactive Barriers
- 03-08 Waste Fuel Site Remediation
- 03-09 Waste Recycling
- 03-10 Radioactive Waste and Land Pollution
- 03-11 Phytoremediation of Organic Pollutants
- 03-12 Polymer Waste Recycling and Management

#### ***04. Ecosystem Assessment and Restoration***

- 04-1 Ecosystem Assessment
- 04-2 Nutrients and Functions of Ecosystems
- 04-3 Restoration of Ecosystems
- 04-4 Urban Ecosystems
- 04-5 Other Topics

#### ***05. Bio-Assessment and Toxicology***

- 05-1 Human Exposure
- 05-2 Bio-response and Ecotoxicology
- 05-3 Bioavailability and Bio-accumulation
- 05-4 Microbiology and Microbial Degradation
- 05-5 Other Topics

#### ***06. Wetlands***

- 06-1 Wetland Conservation
- 06-2 Wetlands for Wastewater Treatment
- 06-3 Other Topics

#### ***07. Sediments***

- 07-1 Assessment of Sediments
- 07-2 Remediation of Contaminated Sediments
- 07-3 Other Topics

#### ***08. Global Change***

- 08-1 Global Warming and its Impacts
- 08-2 Carbon Discharge Reduction
- 08-3 Other Topics

#### ***09. Metals***

- 09-1 Metal Distribution
- 09-2 Metal Removal and Remediation
- 09-3 Speciation, Bioavailability and Accumulation

- 09-4 Phytoremediation
- 09-5 Other Topics

### ***10. Chlorinated and Other Persistent Organic Compounds***

- 10-1 Characterization of Organic Pollutants
- 10-2 Degradation of Persistent Organic Pollutants
- 10-3 Other Topics

### ***11. Modeling***

- 11-1 Environmental Simulation
- 11-2 Water Quality Modeling
- 11-3 Inverse Model and Pollution Estimation
- 11-4 Other Topics

### ***12. GIS, Database, and Remote Sensing***

- 12-1 GIS for Environmental Assessment
- 12-2 Data Management and Statistics
- 12-3 Environmental Remote Sensing Applications
- 12-4 Other Topics

### ***13. Environmental Analysis and Measurements***

- 13-1 Environmental Analysis
- 13-2 Field Measurement Technologies
- 13-3 New Method Applications
- 13-4 Environmental Monitoring
- 13-5 Other Topics

### ***14. Society and the Environment***

- 14-1 Society and the Environment
- 14-2 Environmental Ethics and Laws
- 14-3 Environmental Education
- 14-4 Other Topics

### ***15. Environmental Planning and Management***

- 15-1 Environmental Quality and Planning
- 15-2 Energy-Related Environmental Problems
- 15-3 Environmental Policy and Management
- 15-4 Other Topics

### ***16. Renewable Energy Development & Energy Conservation***

- 16-1 Water Energy Nexus

- 16-2 Wind Energy
- 16-3 Solar Energy
- 16-4 Bio Fuels (Methane, Ethanol, ...)
- 16-5 Other Renewable Energy Topics

## **Abstract Submission**

Abstracts are to be prepared and submitted electronically according to the instructions given below.

**Content.** The abstract should provide a brief summary of the research including: introduction, objectives, methods, results and conclusions. Case studies with novel approaches are especially desired.

**Format.** Abstracts (written in English) cannot exceed one page and must be prepared using standard PC-based MS Word software. Use an 11-point serif font (e.g. Times New Roman) and leave 1-inch (2.5-cm) margins left, right, top, and bottom. Center the title (maximum 12 words, title case, bold type) at the top of the page. Leave a blank line before beginning the author list, which also is centered. If several authors are from one organization, the organization need be typed only once. After each author or group of authors, use parentheses to enclose their affiliation – institution, city, state/province (if applicable) and country. Bold and italicize the name of the presenting author. Leave a blank line after the authors and then begin the text, typing it single-spaced and justifying only the left margin. Leave one blank line between paragraphs; do not indent paragraphs. Authors can download an example from the Conference web site at <http://www.aasci.org/conference/env/doc/abstract-example.pdf>.

**Submission and Cover Note.** Abstracts are submitted electronically via e-mail. Send the abstract to [env-abstract@AASci.org](mailto:env-abstract@AASci.org). Receipt of the abstract will be acknowledged by e-mail. When submitting, include the necessary submittal data in a separate cover note, organized under the following format:

(1) *Title*: Title of abstract should not exceed 12 words. (2) *Presenter and Address*: Presenting author is the person expected to make the presentation at the Conference. Include all contact information (delivery address) – Name, highest degree, academic employment title, department, institution, street number and name, city, state/province, zip/postal code, country, telephone number, fax number, and e-mail address. The address should be accurate for International delivery. (3) *Author List*: List full names of all coauthors and contact information – all the same as the presenting author. Indicate who is the corresponding author of the paper/abstract. (4) *Presentation Preference*: Indicate whether the author prefers a platform (oral) or a poster presentation. Refer to the suggested presentation topics in the list and select one to three sessions (e.g., 03-3, 09-2, 09-3).

**Review.** Abstract received will be reviewed. The Scientific/Technical Program Committee will consider authors' suggestions as to session and format (platform or poster), but the final decision will be based on overall design of the Conference program.

**Notification of Acceptance.** By March 5, 2012, the Committee's decision on each abstract will be mailed to the presenting author. If the abstract was accepted, this letter will state the platform or poster session to which the abstract has been assigned and will provide instructions to prepare the presentation. Authors living in some countries need more time for Visa applications are encouraged to submit as soon as possible, and will be notified earlier (in 2011).

**Proceedings.** The proceedings will be published after the Conference. Manuscripts will be invited for all abstracts accepted for platform or poster presentation; the submittal deadline will be May 31, 2012. Submission of the full papers is encouraged but not necessary for the attendance. Full papers which receive high scores in the review process will be selected for publication in several peer reviewed journals. Later submission of papers with high quality is also considered for review and publication in the journals.

## **Paper Awards**

**Student Paper Award.** The first author of the paper must be a full-time student when the paper is submitted for the student paper competition. The submittal deadline will be May 31, 2012. Winning papers will be selected in June, 2012 and will be recognized during the Conference.

**Young Scientist Paper Award.** The first author of the paper must be a young scientist under 40 (born after 1/1/1972) when the paper is submitted for the Young Scientist Paper Award competition. The submittal deadline will be May 31, 2012. Winning papers will be selected in June, 2012 and will be recognized during the Conference.

**Conference Paper Award.** Outstanding papers will be selected for the Excellent Paper Award. The submittal deadline will be May 31, 2012. Winning papers will be selected in June, 2012 and will be recognized during the Conference.

**Poster Award.** Outstanding posters will be selected for the Poster Award during the poster presentations. Winning posters will be recognized during the Conference.

## **Call for Exhibits (Free)**

Institutions that conduct environmental-related activities or supply equipment used in environmental work are invited to

exhibit at the Conference. Exhibits will be displayed throughout the Conference in a large area adjacent to the platform and poster areas. Exhibitors will have the opportunity to present information to a large, focused audience of up to 1,500 people who acquire and use environmental research/management products and/or services at industrial and government sites around the world. The cost for a 10-ft by 10-ft booth and standard furnishings is free. For exhibitor information and an application form, send an e-mail to [exhibit@AASci.org](mailto:exhibit@AASci.org). Exhibit space is limited and will be assigned on a first-come/first-served basis.

### **Advance Registration**

The Conference encourages you to register early - registrations will be limited to the number that the facility can accommodate efficiently. Anyone who is interested in the conference is welcome to register regardless of submitting a presentation abstract. To register, go to <http://www.AASci.org/conference/env/2012/registration1.html> and register on line or download/print a form (<http://www.aasoci.org/conference/env/2012/registrationform.pdf>) for registration by mail or fax. Registration fees are as follows:

	Paid by March 31, 2012	Paid by May 25, 2012	Paid after May 25, 2012	Paid On-site
Standard	US\$690	US\$790	US\$870	US\$890
Full-time Student	US\$410	US\$430	US\$450	US\$470

The registration fee covers admission to all platform and poster sessions, exhibits, receptions, and refreshment breaks. Registration materials will include the final program and a set of abstracts. Each full-program registrant will receive a set of the proceedings, which will be published by a press and mailed after the Conference.

Payment can be made by American Express, MasterCard, or Visa. Cash, wire transfer and money orders are also accepted. You should contact us first if you use wire transfer. Checks should be drawn on a **U.S. bank**, payable in U.S. funds to "American Academy of Sciences" and referencing "Environmental Conference". The postal address is "ATTN: Environmental Conference, American Academy of Sciences, 9720 Town Park Dr. Ste 18, Houston, TX 77036, USA". Cancellations received by May 25, 2012, will be refunded. No refunds will be made after May 25, 2012, but paid no-shows will receive proceedings covered by their registration fees. Substitutions will be accepted at any time, preferably with advance notice.

Because registration fees are the major source of funding for the Conference and a significant percentage of

the registrants will make presentations, all presenting authors and session chairs are expected to register and pay the standard fees.

## **Meeting Site/ Accommodations/Travel**

### ***Conference Headquarters/Accommodations.***

The Conference will be held at the Hilton Houston North Hotel (12400 Greenspoint Drive, Houston, Texas 77060, USA) in Houston. Time will be allowed within the program's schedule to take advantage of the scenic locale, and optional pre- and post-conference activities will be available for conference delegates and their companions.

Rooms at the hotel sell out months ahead. Therefore, the Conference secretariat has reserved the largest possible block of sleeping rooms at the Hilton Houston North Hotel. It is impossible to guarantee that rooms will be available for late registrants. It is extremely important that you make your hotel reservation as soon as you know that you likely to attend the Conference. Conference registrants can reserve rooms at the Hilton Houston North Hotel at the reduced group rate of \$95/night plus tax.

Room Condition	Room Rate
Single (One Bed)	\$95/room
Double (Two Beds)*	\$95/room

\*Some attendees may want to share the room with his colleague for lower rate (1/2 rate per person). Because of our policy, the attendees need to find their own roommates by themselves.

Comparable discounts in rates for suits are available. These rates are good through June 4, 2012, unless the block sells out before that date. If an attendee prefers to share a double-beds room with another attendee, please contact the Conference Secretariat at [env-conference@AASci.org](mailto:env-conference@AASci.org). The hotel will begin taking reservations on February 1, 2012. To reserve a room at the Hilton Houston North Hotel, call the Hilton's Global Reservations Center at 1-866-577-1154. To qualify for the group rate, mention that you are attending the "International Environmental Conference". Attendees can access the website at <http://www.hilton.com/en/hi/groups/personalized/HOUGPHF-AASC-20120709/index.jhtml> and follow the instructions to make an online reservation. There is no need to type in a "group code", the group code for our 2012 conference will already be typed in for you when you get to this reservation page. A direct link to the reservations has been set up at our website (<http://www.aasci.org/conference/env/2012/hotel.html>). US Government attendees will have to call the hotel to receive

the government per diem rates. If you have any questions on the reservations, please send email to [reservations@Hiltonhouston.com](mailto:reservations@Hiltonhouston.com), or [env-conference@AASci.org](mailto:env-conference@AASci.org) for reservation help.

**Travel.** It is 7.5 miles (12 KM) from the George Bush Intercontinental Airport Houston (IAH) to the Hilton Houston North Hotel. The hotel has own shuttles for transport from the hotel and the airport.

**Internet Access.** Internet access will be free for conference attendees. It will help the attendees to keep contacts with their families and affiliation during the conference, and check travel/weather information before departure.

**Conference/Social Activities.** Conference/Social Activities will potentially include city tours, NASA Johnson Space Center visit, a trip to an area research lab, and/or a field project visit. A summer travel in United States including inland and East/West coast visits will be organized as “Ecological Investigation Tour”. Detailed activity information will be posted on the conference web site as it is determined.

## Inquiries

Questions on abstract submission and review:  
E- mail: [env-abstract@AASci.org](mailto:env-abstract@AASci.org)

Exhibits: E-mail: [exhibit@AASci.org](mailto:exhibit@AASci.org)  
Registration: E-mail: [registration@AASci.org](mailto:registration@AASci.org)  
Other questions: E-mail: [env-conference@AASci.org](mailto:env-conference@AASci.org)

Always check updated information online at:  
<http://www.aasci.org/conference/env/2012>

Regular mail:  
Attn: Environmental Conference 2012  
American Academy of Sciences  
9720 Town Park Dr. Ste 18  
Houston, TX 77036, USA

Please be sure to specify that you are inquiring about Environmental Science and Technology Conference and include your complete mailing address and phone/fax/e-mail information.

## Order Previous Proceedings

Electronic version of the Proceedings of Environmental Science and Technology 2005, 2006, 2007, 2008 and 2010 are available. Please contact us at [env-conf@aasci.org](mailto:env-conf@aasci.org).

**REGISTRATION FORM**  
**6th International Conference on Environmental  
Science and Technology (ICEST2012)**  
(June 25-29, 2012, Hilton Hotel, Houston, Texas, USA)

Given Name: \_\_\_\_\_  
Family Name: \_\_\_\_\_  
Degree, Professional Title: \_\_\_\_\_  
Department: \_\_\_\_\_  
Institution: \_\_\_\_\_  
Street: \_\_\_\_\_  
City: \_\_\_\_\_  
State/Province: \_\_\_\_\_  
Postal/Zip Code: \_\_\_\_\_ Country: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
(Above address will be used for international delivery)

Email 1: \_\_\_\_\_  
Email 2: \_\_\_\_\_

**Registration Fee:** (please check X)

	By 3/30	By 5/20	After 5/20	On-site
Standard:	<input type="checkbox"/> \$690	<input type="checkbox"/> \$790	<input type="checkbox"/> \$870	<input type="checkbox"/> \$890
Student:	<input type="checkbox"/> \$410	<input type="checkbox"/> \$430	<input type="checkbox"/> \$450	<input type="checkbox"/> \$470
Credit Card:	<input type="checkbox"/> Visa, <input type="checkbox"/> Master			

Credit Card Number: \_\_\_\_\_  
Expiration date (mm/yyyy): \_\_\_\_\_  
Card holder: \_\_\_\_\_

Cardholder signature: \_\_\_\_\_  
 Wire transfer,  Check (U.S. bank only),  Money order

**Bank and account information** (for wire transfer)  
Please send email to [env-conference@aasci.org](mailto:env-conference@aasci.org)

**Guest Room Reservations:** (please check)  
Conference nights:  6/25-6/29 (\$611.35)  
Additional nights:  7/22;  7/23;  7/24;  6/30;  7/1

It is important that each attendee contacts the hotel at least **twenty-one days prior** to your arrival date, or **June 4, 2012**. Please contact the hotel directly, or send your information to us for the reservations. If you decide to reserve via us, the total fund can be calculated as follows:

(\$122.27 x night number) = \$ \_\_\_\_\_

A more detailed reservation form can be downloaded from <http://www.AASci.org/conference/env/2012/reservation.pdf>.

**Mail this Form to:** Environmental Conference 2012  
American Academy of Sciences  
9720 Town Park Dr. Ste 18  
Houston, TX 77036

**Or Fax:** 713-776-9767; **Email:** [env-conference@AASci.org](mailto:env-conference@AASci.org)

Abstract Reference Number (Optional): \_\_\_\_\_

