

Eleventh International Conference  
**METHODS AND APPLICATIONS OF  
RADIOANALYTICAL CHEMISTRY**

**FIRST CALL FOR PAPERS**

Abstracts of papers to be presented at the conference are solicited at this time. An up-to-date list of session organizers is available on the MARC XI website listed below. If you are interested in submitting a paper to one of the special topic sessions, please contact the organizer before submitting your abstract. All abstracts must be submitted to the Program Chair as described on the web site ([www.marconference.org](http://www.marconference.org)) which also includes details on preparation and submission of 250-word abstracts using a pdf form template.

**TENTATIVE TIMELINES**

Abstracts due: December 15, 2017  
Notification to authors: January 15, 2018  
Preliminary program: February 15, 2018  
Draft Papers Due: At conference

**CONTACT PERSONS**

Questions concerning the scope and organization of the conference should be addressed to the General Chair:

Stephen P. LaMont, Los Alamos National Laboratory  
Tel: (505) 667-1008  
E-mail: [lamont@lanl.gov](mailto:lamont@lanl.gov)

Information on the scientific program of the conference can be obtained from the Program Chair:

Samuel E. Glover, NIOSH  
Tel: (513) 609-2920  
E-mail: [glover.14@osu.edu](mailto:glover.14@osu.edu)

April 8-13, 2018  
Kailua-Kona, Hawaii, USA

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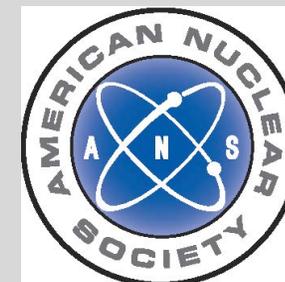
**WEB DESIGN**

Dann Glover

**TECHNICAL PROGRAM COMMITTEE**

A complete list of the technical program committee can be found on the conference web site.

<http://www.marconference.org/technical-committee/>



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## ABOUT THE CONFERENCE

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The conference will continue the tradition set by the ten previous MARC conferences by focusing on emerging developments in radioanalytical chemistry, with particular emphasis on new applications. These conferences have grown to become a major international forum for the field of radioanalytical chemistry. The scope of the conference includes, but is not limited to, techniques such as instrumental and radiochemical activation analysis; radionuclide production; radiochemical separation methods; alpha, beta, gamma, x-ray and other nuclear spectrometries; *in situ* and remote sensing; radiochemical tracer methods, and mass spectrometry methods for the measurement of radionuclides. Applications of radioanalytical methods to environmental studies, environmental radioactivity including the actinide elements and radon, radioactivity in the ocean, biomedical, bioassay and clinical problems, geochemical, materials and energy sciences, nuclear fuel cycle and nuclear waste characterization, safeguards, nuclear forensics, treaty monitoring, and non-proliferation studies are some of the topics presented at previous MARC conferences.

The objective of the MARC conferences is to promote a broad exchange of information on radioanalytical chemistry among scientists from participating countries. The MARC X conference attracted participants from more than 35 countries who benefited from the informal nature of the conference and locale. The central geographic location of Hawaii encourages participation and attendance of scientists from Pacific Rim countries as well as providing European scientists with easy accessibility via major US airports. The isolated nature of Kailua-Kona on the Island of Hawaii provides an excellent atmosphere for informal discussions and working groups among the anticipated 325-375 attending scientists and also provides excellent recreational facilities for participating guests.

The conference will include both oral and poster sessions grouped around specific topics. Poster sessions will be organized around specific themes, similar, or in addition, to those included in the oral sessions. Continuing the policy of previous MARC conferences, high-quality research presented at the conference may be submitted to the Program Chair for peer review and publication in serial volumes of *The Journal of Radioanalytical and Nuclear Chemistry*. The previous seven conferences were the venue for the presentation of the Hevesy Medal, which is awarded to individuals who have made outstanding contributions to the fields of radiochemistry or radioanalytical chemistry, and MARC XI again has been selected to have the honor to present this award.

## TENTATIVE TOPICS

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The following topics are not exclusive (see website) and the organizers welcome papers in any area of fundamental or applied radioanalytical chemistry. A partial listing of topics includes:

### General Call for Papers

### Applications of Nuclear Techniques to National Security and Treaty Monitoring

### Ultra-sensitive Mass Spectrometric and Radiometric Methods Applied to Environmental and Space Applications

### Current Needs and Future Challenges for Nuclear and Radiological Reference Materials

### Quality Assurance Topics in Radioanalytical Chemistry: Attribution to Root Cause

### Separation Chemistry and Target Preparation for Nuclear Chemistry Experiments

### Advances in Actinide Analytical and Radionuclear Chemistry

### Analytical Chemistry in Support of the Fuel Cycle

### Actinide Mass Spectrometry Techniques and Applications

### Speciation Studies of Radionuclides in the Environment

### Radioecology Studies in Support of Fukushima

### Environmental Radioactivity

### Nuclear Decay Date for Chronometry and Forensics

### Isotopic Production Needs and Applications for Geochemistry and Homeland Security

### Radioanalytical Tools and Techniques for Emergency Response in the Laboratory and the in the Field

### Nuclear Forensics

### Instrumental, Preconcentration, Radiochemical and Speciation Activation Analysis

### Instrumentation and Software for Nuclear Spectrometry

### International Status and Challenges of Radiochemistry Education and Training

### Radioanalytical Destructive Assay Measurements for Safeguard Applications

## CONFERENCE WEB SITE

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The conference web site address is:

<http://www.marconference.org/>

Most information about the conference will be distributed through the web site and by e-mail. The web site will be updated periodically as new information is published.

## CONFERENCE LOCATION

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The conference will be held at the Sheraton Kona at Keauhou Bay Hotel (the same hotel where MARC VIII, IX, and X were held) in Kailua-Kona, Hawaii. Kailua-Kona is on the beautiful Island of Hawaii and provides an excellent atmosphere for informal discussions and working groups among the anticipated 325-375 attending scientists.

## REGISTRATION

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A registration fee will be charged to all attendees to help defray the costs of the conference. The fee will include all official conference functions. Please see the website for more information.

## HOUSING

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The Sheraton Kona at Keauhou Bay Hotel is designated as the official headquarters hotel and attractive discounted rates will be offered to the attendees. Please make reservations early to assist the organizers with maintaining low registration fees. Please see the web site for more information.

## SOCIAL AND GUEST PROGRAM

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A social program is planned to provide an opportunity for informal contacts and discussions among the participants. Activities for guests on the Big Island of Hawaii and the other Hawaiian islands are many and will be offered through local agents. See the web site for links to information on Hawaii.

## SPONSOR

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MARC XI is sponsored by the Northern California Section of the American Nuclear Society ([www.ans.org](http://www.ans.org)) as a Class I topical meeting.