

# First Announcement

# Isotopes for Medicine and Industry



Embedded Topical Meeting / 2010 ANS Winter Meeting (November 7-11, 2010)

November 8-11, 2010 • Las Vegas, NV

## TOPICAL MEETING PURPOSE

The continuing rapid growth of radioisotopes for both medical and industrial applications is of national and international interest. The expanding applications, new research opportunities, and associated production issues surrounding the supply of research, diagnostic, therapeutic, environmental, and industrial radioisotopes will be discussed in an interdisciplinary audience.

## CONFERENCE CHAIR

J. David Robertson, University of Missouri-Columbia

## CONFERENCE CO-CHAIRS

Robert W. Atcher, Immediate Past President, Society of Nuclear Medicine  
Mauro Bonardi, Università degli Studi di Milano

## TECHNICAL PROGRAM CHAIR

Rolf Zeisler, National Institute of Standards and Technology

## SPONSORS

American Nuclear Society Biology and Medicine Division (BMD), Isotope and Radiation Division (IRD), and Accelerator Applications Division (AAD)  
Society of Nuclear Medicine (proposed)  
US Department of Energy (proposed)

## SUBJECT CATEGORIES

Applications in Nuclear Medicine—Diagnostics • Applications in Nuclear Medicine—Therapeutics • Reactor Production of Medical Isotopes • Cyclotron Production of Biomedical Tracers • Production and Application of Alpha Emitters • Isotopes in Environmental, Industrial and Nuclear Power Applications • Reactor Production of Research and Industrial Isotopes • High Energy Accelerator/Cyclotron Production of Isotopes • Accelerator based production of Mo-99 • Nuclear and Radiochemistry • Radioanalytical Techniques • Distribution and Transportation Issues • R&D and Standards Needs for Future Applications • Alternative Technologies: Replacing He-3 for Neutron Detection • Quality Assurance and GLP in Radionuclide and Radiopharmaceutical Chemistry • Manpower and Education

## TECHNICAL PROGRAM COMMITTEE

Robert W. Atcher (LANL, SNM), Steven R. Biegalski (UT-Austin), Peter Bode (Delft TU), Mauro Bonardi (U Milan), R. Gregory Downing (NIST), Phillip D. Ferguson (ORNL), Samuel E. Glover (CDC), Richard Henkelmann (itg Garching), Rebecca M. Howell (UT-M.D.Anderson), Lin-Wen Hu (MIT), W. Dennis James (TAMU), S. Landsberger (UT-Austin), Stephen P. LaMont (LANL), Suzanne Lapi (WUSTL), Alfred Morgenstern (EC-JRC), Wayne D. Newhauser (UT-M.D.Anderson), F. Meiring Nortier (LANL), J. David Robertson (UM-Columbia), Buck Rogers (WUSTL), Wolfgang Runde (LANL), Nicholas Spyrou (U Surrey), Benn Tannenbaum (AAAS), Kenan Unlu (PSU), Henry VanBrocklin (UCSF, SNM), Rolf Zeisler (NIST)

Please contact Rolf Zeisler ([rolf.zeisler@nist.gov](mailto:rolf.zeisler@nist.gov)) or any of the TPC members to indicate your interest – Keyword: 2010-IMI.

## **MEETING DATA**

January 2010 - Call for Papers with detailed instructions

June 2010 - Submission of Summaries

July 2010 - Acceptance of contributions (with revisions due in August)

September 2010 - Preliminary Program

October 2010 - Early registration closes (estimated ANS and cooperating society member registration fee is \$730)

## **Some Proposed Paper Titles**

In this early stage of planning we have received preliminary titles for planned contributions. These will be combined with additional papers under appropriate Session Topics. We invite all prospective participants to informally submit presentation titles to the Technical Program Chair:

- Design of PALLAS and its isotope production facilities
- Isotopes needed for radioanalytical chemistry & mass spectrometry measurements for nonproliferation, safeguards, and forensics applications
- The future role of selected isotopes in nuclear medicine
- Specifications of a new type of Ge-68/Ga-68 generator
- 3.5 Ci W-188/Re-188 generator of high performance
- Quality of n.c.a. Lutetium-177
- Radiation protection aspects related to Lutetium-177 use in hospitals
- The use of Rhenium-188 in skin cancer therapy
- Applications of radionuclides in life and environmental sciences
- Wear and corrosion studies by thin layer activation in accelerator
- Radioactive nanoparticle toxicology
- New trends in metabolic radiotherapy
- Production for alpha immuno-therapy
- Large scale production of Ac-225 via Ra-226(p,2n) route
- Mo-99 production via (n, gamma) reaction

## **WEB PAGE**

Please refer to the ANS Biology and Medicine Division web page <http://bmd.ans.org/> .