

Mangalore University



2nd International Conference on Po and Radioactive Pb isotopes (INCO-PoPb-2013)

February 10-13, 2013

Organised by

Mangalore University, Mangalagangothri - 574199, India

Conference Honorary Chair

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Invitation

Dear Colleague,

December 9, 2011

Greetings from Mangalore, India.

I am happy to inform you that we are organizing the **Second International Conference on Po and Radioactive Pb isotopes (INCO-PoPb-2013)** in Mangalore University, Mangalore, India during February 10-13, 2013. You may recall that the first conference in this series was held at University of Seville, Spain during October 26-28, 2009 and about 150 scientists from about 40 countries attended this conference and it was considered as a great success.

The scientific community working in the field of Po and Pb isotopes is looking forward for the second conference in this series and there is an overwhelming feeling that this conference should be held periodically once in every 2-3 years. Hence, the second conference in this series is being organized with representation from different countries and we are trying to get the best scientists in the field for plenary and invited talks. The tentative topics to be covered are: analytical methods to determine ^{210}Po and ^{210}Pb , their concentrations and behaviour in the environment, their use as tracers and chronometers, and dose assessment.

It is planned to publish selected papers presented in the conference in a **special issue** of a peer-reviewed Journal. In addition to this, extended abstracts of all papers presented in the conference will be published as proceedings of the conference. Prof. Elis Holm, NRPA, Norway, Prof. Mark Mahalingam Baskaran, Wayne State University, USA, Prof. Des Walling, University of Exeter and Prof. Rafael García-Tenorio, University of Seville are involved in planning and organizing this conference.

We invite you to participate in this conference. Your contributions in the field of Po and Pb radioisotopes would provide a valuable contribution to the success of this conference.

Karunakara Naregundi
Convenor, INCO-PoPb-2013
Mangalore University, Mangalore, India

Objectives and Scope

The primary objective is to organise the **Second International Conference on Po and Radioactive Pb isotopes (INCO-PoPb-2013)** and bring together the scientists who are interested in the applications of ^{210}Po and ^{210}Pb as tracers and chronometers in various subsystems (lithosphere, hydrosphere, atmosphere, biosphere and cryosphere) of the Earth.

Of the daughter-products of ^{238}U -series, the most-extensively studied and utilized isotope as tracer and chronometer is ^{210}Pb . Lead-210 serves as a chronometer to investigate the environmental changes that have taken place in the Anthropocene. A variety of matrices have been dated using the disequilibrium between ^{210}Pb and its long-lived parent, ^{226}Ra , that include: marine, lacustrine and riverine sediments, biogenic and abiogenic carbonates, ice cores, etc. It is also used to date some archaeological objects (e.g., paintings).

Polonium is a sulphur-group element and has a strong affinity for biogenic particulate matter in marine system and thus, can be used as a tracer of biogenic particulate matter. The studies on the volatility and speciation of Po have drawn considerable attention during the past 15 years. The volatile nature of polonium also results in extraneous sources of Po to the atmosphere in addition to the production from the decay of atmospheric ^{210}Pb . In many NORM industries, the volatile ^{210}Po is an important radioactive source for occupational radiation dose. Furthermore, ^{210}Po contributes the largest radiation dose to the marine biota, as it tends to get accumulated in biological organisms. Better understanding of the kinetics of Po and Pb are important in terms of their mobility in human body and the environment. The biological half-life of Po and Pb in human body needs further investigation.



Scientific Programme

The scientific programme of the conference will include plenary talks, invited talks, and papers in the form of oral and posters presentations. Eminent researchers working in the field of Po and radioactive Pb as tracers and chronometers will deliver the plenary and invited talks. The major scientific thematic areas to be covered at the conference are listed below:

- Mobility of ^{210}Po and ^{210}Pb in the terrestrial environment and the kinetics of ^{210}Po and ^{210}Pb
- ^{210}Po and ^{210}Pb as tracers in the marine environment
- ^{210}Po and ^{210}Pb as tracers in the atmosphere
- ^{210}Pb as a tracer in the terrestrial environments
- ^{210}Po and ^{210}Pb as chronometers in marine, lacustrine, and cyrospheric environments
- ^{210}Pb as a chronometer in carbonate studies
- ^{210}Po and ^{210}Pb in NORM industries
- ^{210}Po and ^{210}Pb in dose assessments
- Radiochemistry, instrumentation and quality assurance
- New techniques in the measurement of ^{210}Po and ^{210}Pb radioisotopes



Conference Committees

International Advisory Committee

Elis Holm, NRPA, Norway

Mark Mahalingam Baskaran, Wayne State University, USA

Rafael García-Tenorio, University of Seville, Spain

Des Walling, University of Exeter, UK

Konstantinos Papastefanou, Aristotle University of Thessaloniki, Greece

Juan Pedro Bolívar R, University of Huelva, Spain

Bertil Persson R R, Lund University, Sweden

Paul Martin, ARPANSA, Australia

Jussi Paatero, Finnish Meteorological Institute, Finland

Jinzhou Du, East China Normal University, China

Gi-Hoon Hong, KORDI, South Korea

Darwish Al-Azmi, College of Technology, Kuwait

Y S Mayya, BARC, India

Karunakara Naregundi, Mangalore University, India

National Organizing Committee

Coming soon

Scientific Programme Committee

Elis Holm, NRPA, Norway

Mark Mahalingam Baskaran, Wayne State University, USA

Rafael García-Tenorio, University of Seville, Spain

Des Walling, University of Exeter, UK

Konstantinos Papastefanou, Aristotle University of Thessaloniki, Greece

Juan Pedro Bolívar R, University of Huelva, Spain

Bertil Persson R R, Lund University, Sweden

Darwish Al-Azmi, College of Technology, Kuwait

Y S Mayya, BARC, India

H M Somashekarappa, Mangalore University, India

Karunakara Naregundi, Mangalore University, India



Call for Papers

Abstract of a paper not exceeding 500 words may be submitted **ONLINE** through the abstract submission facility. The abstract can also be sent as an e-mail attachment to the conference office. The abstract should be prepared as a Microsoft Word document with Times New Roman 12 point font, 1.5 lines spacing on an A4 size paper with one inch margins on all sides. It should contain the title of the paper, names of the authors (presenting author should be underlined) and affiliation with email ID. The illustrations with figures and tables should be avoided as far as possible. Abstract not following the suggested format will be rejected.

Abstracts submitted for presentation in the conference will be peer reviewed by members of the scientific programme committee and experts in field and its outcome will be communicated to the corresponding author.

Publication of the proceedings

It is planned to publish the selected papers presented in the conference in a **special issue** of a peer-reviewed journal. In addition to this, extended abstracts of all papers presented in the conference will be published as proceedings of the conference.



Registration

Registration is pre-requisite for attending the conference and presenting a paper. Request for registration should be sent to the conference office.

Conference registration fees:

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|------------------------------------|---|
| Participant | 450 US\$ (early registration) 500 US\$ (late registration) |
| Student participants from overseas | 250 US \$ (early registration) 300 US \$ (late registration) |
| Accompanying person | 200 US\$ |
| Participants from India | Rs. 10,000 Rs. 5,000 (accompanying person) |
| Student participants from India | Rs. 6,000 |

Fee for participants includes:

- Participation in scientific sessions
- The printed material for the conference, including conference proceedings
- Welcome reception
- Lunch and coffee/snacks during breaks
- Gala dinner.
- Social events (cultural programme).

The registration form can be downloaded here: [Coming soon.](#)



Important Deadlines

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| Pre registration expressing interest | : | April 30, 2012 |
| Abstract submission | : | June 30, 2012 |
| Regular registration | : | October 1, 2012 |
| Extended abstract submission | : | November 30, 2012 |
| Late registration | : | December 31, 2012 |
| Full text paper submission | : | February 10, 2013 |

Time schedule

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| Distribution of conference materials to the participants | : | 17:00 hrs, February 10, 2013 |
| Ice-breaker | : | 19:00 hrs, February 10, 2013 |
| Conference inauguration | : | 09:00 hrs, February 11, 2013 |
| Cultural programme (showcasing the traditional dances of India) | : | 19:00 hrs, February 11, 2013 |
| Gala dinner | : | 19:00 hrs, February 12, 2013 |
| Scientific sessions | : | 09:00 hrs to 18:00 hrs on conference days |

