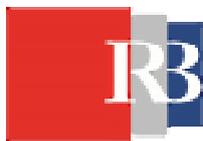


**Joint IAEA-SPIRIT-Japan
Technical Meeting on Development and Utilization of MeV SIMS
May 21-25, 2012, Inter-University Centre
Dubrovnik, Croatia**



Supported by:

- Strategic Croatian-Japanese Co-operative Program on Advanced Materials Science, sponsored by the Croatian Ministry of Science, Education and Sports (MSES) and the Japan Agency for Science and Technology (JST)
- International Atomic Energy Agency (IAEA)

Aim:

MeV SIMS is a promising method for sensitive analysis and microscopic imaging of organic molecules in bio-medical samples, as well as in samples of art and archaeology, forensics, environment, etc. This method employs heavy ions in the MeV energy range from the accelerator, focused into an ion microprobe chamber. Secondary molecular ions, emitted from the irradiated surface of the sample, are detected and identified by their mass using the Time-of-Flight method. During the Technical Meeting the basics of the MeV SIMS method as well as its potential applications will be presented and discussed by researchers from Croatia and Japan as well as by experts and participants from other partner countries - members of IAEA.

Venue:

Dubrovnik, a Croatian city on the Adriatic Sea coast, is one of the most prominent Mediterranean tourist destinations. In 1979, the city of Dubrovnik joined the UNESCO list of World Heritage Sites. The prosperity of the city of Dubrovnik has always been based on maritime trade. Supported by its wealth and skilled diplomacy, the city achieved a high level of development, particularly during the 15th and 16th centuries. Dubrovnik is hometown to **Ruđer Bošković**, Jesuit priest and scientist from the 18th century. He was the first to envisage, seek, and propose a mathematical theory of all the forces of Nature. His atomic theory inspired Michael Faraday to develop the theory for electromagnetic interaction.



Inter-University Centre Dubrovnik (<http://www.iuc.hr/>) is an independent international institution for advanced studies structured as a consortium of universities with a mission to organise and promote contact and exchange across a wide range of scientific concerns.

Program:

Monday, May 21:

- Registration of participants

Tuesday, May 22:

- Morning session 1 - MeV SIMS Fundamentals: What are the problems?
- Morning session 2 - Mass spectrometry applications
- Afternoon session - Secondary ion mass spectrometry
- Afternoon panel discussion: - Sample preparation issues
- Welcome reception & Posters

Wednesday, May 23:

- Morning session 1 - MeV SIMS Instrumentation and application
- Morning session 2 - Ancillary techniques
- Guided tour in Old City of Dubrovnik
- Afternoon session - Other considerations
- Afternoon panel discussion: - Why should MeV SIMS be developed?

Thursday, May 24:

- Morning - Discussion and drafting of the Meeting report
- Afternoon - Conference excursion & Social dinner

Friday, May 25:

- Morning - Discussions and drafting of the Meeting Report

Scientific program will consist of four working days divided into the morning and late afternoon sessions with an extended lunch break reserved for walks and sightseeing of Dubrovnik.

Accommodation and fees:

No registration fee will be charged. Special price for accommodation is agreed for participants with Hotel Lero (<http://www.hotel-lero.hr/>) within a walking distance from the Old Town (single bed room 66 EUR/day, double bed room 86 EUR/day). Alternatively, participants can reserve their own accommodation in other hotels that will most likely have free rooms before the start of the main tourist season. From Hotel Lero to IUC is 17 min walk. From IUC to the Old Town is just 3 min walk.

Organizers:

Ruđer Bošković Institute, Bijenička cesta 54, 10000 Zagreb, Croatia

Contacts: ttadic@irb.hr (scientific program), izamboni@irb.hr (travel and accommodation)

Web site: <http://www.iuc.hr/conference-details.php?id=196>

Workshop program: Tonči Tadić, Milko Jakšić, Jiro Matsuo, Roger Webb, Aliz Simon

Location of IUC, Hotel Lero and Old City of Dubrovnik:

