

14th International Conference on Nuclear Microprobe Technology and Applications

7-11 July 2014 • Padova, Italy



FIRST ANNOUNCEMENT

Welcome to the Conference

We are pleased to announce that the 14th *International Conference on Nuclear Microprobe Technology and Applications* (ICNMTA 2014) will take place in Padova (Italy) on 7-11 July 2014. The Conference is organized by the Istituto Nazionale di Fisica Nucleare (INFN) with the patronage of the University of Padova, Firenze and Torino.

The conference covers the many aspects of nuclear microscopy, regarding both the development of the micro/nano focused ion beam technology and the state of the art in the various applications of ion micro/nano probes in many scientific fields ranging from high-tech materials to biology, geology, art and archaeology.

Special sessions are envisaged to illustrate the progress in the field of the micro/nano ion beam modification of materials and the 5th *International Workshop on Proton Beam Writing* will be held during the conference.

This conference provides an excellent opportunity for researchers to present their latest progress, to exchange ideas and thoughts and to explore new research directions using nuclear microprobes.

Sessions will begin on Monday, July 7, 2014. On Sunday, July 6, an evening welcome cocktail is planned.

Topics

- Microbeam facilities
- Beam optics
- Microprobe control
- Analysis techniques
- Imaging techniques
- Quantitative analysis
- Proton Beam Writing

Applications

- Material Science
- Microelectronics
- Biology, medicine and botany
- Earth and Environmental Sciences
- Art & Archaeology
- Complementary microanalytical techniques

Scientific Programme

The 5 days conference will consist of presentations, with plenary sessions with keynote lectures, invited technical and contributed talks. Poster sessions and special sessions are foreseen. During the conference the 5th *International Workshop on Proton Beam Writing* will be held.

A special plenary session is planned at the *Aula Magna*, the Great Hall of the historical building (*Palazzo Bo*) of the University of Padova, one of Europe's oldest and most prestigious seats of learning, dating back to 1222.

The official language will be English.

Proceedings

Proceedings will be published by Elsevier Science B.V. as a special issue of *Nuclear Instruments and Methods B*.

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Venue

Padova is one of the most charming and dynamic cities in Italy. Here a fascinating mix of historic and new, of centuries-old traditions combined with metropolitan rhythms creates a unique atmosphere.

Probably better known as the city of St. Anthony or as the economic capital of Veneto, Padova is one of the most important Art Cities in Italy. Important monuments of the town were realized between the 13th and the 15th century, the most extraordinary economic and cultural period, that left an indelible mark on the town: the Medieval City Walls, the great civil and religious buildings, the University, the wonderful frescoes painted by Giotto and his followers, and later the works by Andrea Mantegna and Donatello.

Padova is also a city of science and culture. The ancient University conserves the oldest Anatomic Theatre in the world and the famous wooden chair, from which, according to tradition, Galileo Galilei taught Mathematics from 1592 to 1610. Moreover, the Botanic Garden and the old astronomic observatory called "La Specola" represent ideal tokens to trace the history of man's progress and achievements in the field of science, technique and creativity.

Padova is very close (30 km) to Venice and well connected to it by frequent trains, which allow to reach this beautiful and unforgettable city in about half an hour.



Conference location

ICNMTA 2014 will take place at Centro Culturale San Gaetano, in via Altinate 71, in the city centre of Padova.

It is a civic centre aimed at hosting and promoting cultural initiatives such as conferences, exhibitions, shows and art displays. A coffee-shop and restaurant are inside the building. The "Centro Culturale S.Gaetano", originally laid down in 1582 by

the architect Vincenzo Scamozzi, has been completely renovated and improved in 2008, now bringing together the charm of a classical site with all the comforts of a modern structure.

Accommodation and travel

Many hotels, located within walking distance from the conference site, will be available for the conference delegates.

Padova can be reached easily by car and train. The nearest airport is Venice "Marco Polo", 45 kilometers East of Padova. This airport is connected to 93 international destinations, including some low-cost airlines. Other airports near Padova are Verona and Treviso.

Detailed information on travel and accommodation will be available in the next announcements and on the conference web-site.

We look forward to welcoming you in Padova in 2014!

Valentino Rigato, *INFN LNL, Italy* (Chair)

Lorenzo Giuntini, *Firenze University and INFN Firenze, Italy* (Co-Chair)

Ettore Vittone, *Torino University and INFN Torino, Italy* (Co-Chair)

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Conference Secretariat

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