

ECM-115 - VSTD Report

City Hotel, Krakow, Poland

5.4-7.4, 2013

After the last ECM in Bratislava the Vacuum Science and Technology International Scientific Committees of the IVC-19 conference with the members HENDRICKS Jay (USA), Chair; BERSIER Jean-Louis (F), Vice-Chair; BOHATKA Sándor (H); HEDBAVNY Pavel (CZ); HERBERT Joe (UK); LEISCH Manfred (A); ORLANDO Teodoro M.N.D. (P); SETINA Janez (SL); WUEST Martin (CH) carried out the abstract selection which was performed on the web. The committee had put the focus basically on the oral contributions.

The proposals concerning the school about “Vacuum gas dynamics” after IVC-19 has been modified. The school with the main topics as follows:

1. Main concepts and terminology of rarefied gas dynamics
2. State of art of modern gas dynamics
3. Methods of numerical and analytical modelling of gas dynamics processes in vacuum chambers, from a simple geometry to complex large vacuum systems such as particle accelerators.
4. Experimental methods of rarefied gas dynamics

shall be organized by F. Sharipov and O. Malyshev now within IVC-19 . This change is welcome by the IVC organizers and strongly supported by VSTD.

The Workshop „UHV techniques for large volume devices“ which was approved as Technical Training Course (TTC #15) organized by the Indian Vacuum Society at the Indian Institute for Plasma Research Bhat Ganghinargarn was rescheduled and held March 19-23, 2013. The purpose of IUVSTA was to provide a worldwide platform for the promotion, proliferation, and education of vacuum science, techniques, and applications.

The workshop objectives were:

- to bring together vacuum scientists and technologists interested in all aspects of Ultra high vacuum (UHV) systems for large volume devices, e.g. Tokomaks, Accelerators, Gravitational Wave Detector (LIGO) and Space applications etc.
- Various techniques of achieving UHV
- How to accomplish the challenging task of Design and fabrication of a large UHV chamber including the important aspect wall cleaning
- Leak detection technique for large volume devices
- to promote the recent progress in the UHV techniques for large volume devices and related industrial development.

The participants of this workshop are involved in fusion research, accelerators, large experimental systems and detectors, space technologies etc. and industries related to vacuum science in India and other countries around the world.

- Researchers from Indian Scientific organizations (46)
- Academicians from Indian Universities (10)
- Technologists from different organizations (08)
- industrial houses (08)
- students (08)
- Foreign Delegates (05)

M. Leisch
VSTD chair