



TECHNISCHE
UNIVERSITÄT
WIEN

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INSTITUT FÜR
ANGEWANDTE PHYSIK
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IAP-SEMINAR

EINLADUNG

Termin: **Dienstag, 14.10.2014 um 16:00 Uhr**
Ort: **Technische Universität Wien,
Institut für Angewandte Physik,
Seminarraum 134A, Turm B (gelbe Leitfarbe), 5. OG
1040 Wien, Wiedner Hauptstraße 8-10**

Vortragender: **Dr. Andrea Cadoppi**
SAES, Milan/Italy

Thema: **Non Evaporable Getter Pumps in UHV-XHV Systems**

Kurzfassung

Due to the complexity of UHV systems in a variety of applications (i.e. Surface Science, Thin Film Deposition, Portable Systems, Cold Atomic Trap, Electron Microscopes, Particle Accelerators), the space available for mounting UHV pumps is getting smaller. A radically new approach is here presented, which can mitigate this issue. In particular, Non Evaporable Getter (NEG) and ion pumping technologies are properly combined and integrated in one single compact pumping device, called NEXTorr®. In the NEXTorr® pump, the getter cartridge acts as the main UHV pumping element, leaving to a small sputter ion pump the ancillary task of removing noble gases and methane, not pumped by the NEG. This design allows achieving large pumping speed in a very small package. The NEXTorr® pump will also address other specific issues in UHV systems like the reduction of the magnetic interferences and the vibration removal. Theoretical and practical aspects of NEG pumps technology will be presented. Then the NEXTorr pump concept will be introduced, and its usage in a variety of Surface Science equipments and other UHV applications will be discussed.

*Alle interessierten Kolleginnen und Kollegen sind zu diesem Seminar
(45 min mit anschließender gemeinsamer Diskussion) herzlich eingeladen.*

W. Werner e.h.
(Seminar-Chairperson)

H. Störi e.h.
(LVA-Leiter)