

## **Session Program**

**17-22 Jun 2018**



**15th European Vacuum Conference (EVC-15)**

***Poster Session Tuesday***

## Tuesday 19 June

16:50

### Poster Session Tuesday

**Poster Session** | **Location:** CIGG, Main Lobby

#### Research on the accumulation leak detection method of helium mass spectrometry based on low vacuum

**Speaker**

Dr yong wang

#### The Study of Influence of Ambient Humidity on Vacuum Capacitance Diaphragm Gauges

**Speaker**

Mr Martin Vicar

#### A new calibration method and apparatus of vacuum mass spectrometer

**Speaker**

wenjun sun

#### Development of Vacuum Calibration Apparatus for Planetary Exploration

**Speaker**

zhengnan yuan

#### Flow Field Calculation and Optimization of Spiral Groove Dry Seal for Screw Vacuum Pump

**Speaker**

Prof. Kun Liu

#### Outgassing of differently gold-coated copper samples

**Speaker**

Mr Björn Tietz

#### Determination of pumping properties and surface resistance of quaternary alloy of non-evaporable getter of TiZrVCu

**Speaker**

adrian hannah

#### Alumina ceramics vacuum chambers for injection magnets and their support configuration in the J-PARC RCS

**Speaker**

Dr Michikazu Kinsho

#### The gas migration in cryogenic tubes

**Speaker**

Dr Chuanfei Hu

#### Facile fabrication of amine-functionalized g-C<sub>3</sub>N<sub>4</sub> nanosheets for enhanced nitrogen photofixation

**Speaker**

Prof. Fang Jiang

**The multistage differential pumping system in CIADS****Speaker**

Mr Peng Zhang

**Comparative Vacuum Simulations for a DLSR Upgrade of PETRA III****Speaker**

Nils Plambeck

**Pentacene on Au(111) and Cu(111) studied by UPS, MAES, and first-principles calculation****Speaker**

Prof. Shigeru Masuda

**Microscopic Mechanism of Mg-Al Alloy Coating Damping Properties : A Molecular Dynamics study****Speaker**

Prof. GuangYu Du

**RF power conditioning of the Elettra's cavities with UHV NEG technology.****Speaker**

Mr Luca Rumiz

**Electronic properties of pristine and potassium-doped dibenzopentacene on Au(111) studied by UPS, MAES, and first-principles calculation****Speaker**

Prof. Shigeru Masuda

**The primary flow jet core in the steam-jet vacuum pump and its influence on the pumping performance at different operating conditions****Speaker**

Prof. Xiaodong Wang

**Study of the thermal transpiration applied to a CDG with an adjustable temperature****Speaker**

Frédéric BOINEAU

**Compressibility measurements of working liquid of the primary absolute pressure standard of Russia****Speaker**

Dr Irina Sadkovskaya

**Oxygen dosing systems for Diamond Optics.****Speaker**

Mr Hugo Shiers

**Single Metal Zirconium Non-Evaporable Getter Coating****Speaker**

Ruta Sirvinskaite

**ARIEL E-linac Vacuum System****Speaker**

Mr Dimo Yosifov

### **Determination of pumping properties of Quaternary alloy of TiZrVAl non evaporable getter**

**Speaker**

Mr Omid Seify

### **Vacuum measurement standards at KRISS and results of bilateral comparison between KRISS and NINVEST**

**Speaker**

Dr SEUNG-SOO HONG

### **Calibration and operation of total pressure gauges and residual gas analysers for UHV beamlines at CERN.**

**Speaker**

Sophie Meunier

### **Electromagnetic Characterisations of Non-Evaporable Getter Thin Films based on Waveguide Method**

**Speaker**

Phe Suherman

### **NEG coating for narrow tubes: challenges in deposition and testing**

**Speaker**

adrian hannah

### **Effect of hydrogen bulk content on the thermal removal of copper surface oxide**

**Speaker**

Dr Mauro Taborelli

### **Measurement of the adsorption isotherms and the mean residence time of hydrogen and deuterium physisorbed on a cold copper surface**

**Speaker**

Mr Kohta Kawahara

### **Measuring the Change of Gas Flow Conductance Due to Altered Surface Conditions of a Tube**

**Speaker**

Tim Verbovsek

### **Improvement of Magnetic Structure of Sputtering Ion Pump**

**Speaker**

Prof. Xiaodong Wang

### **Design and commissioning of the Cryogenic SEY measurement facility at Daresbury**

**Speaker**

taaj sian

### **From vacuum acceptance test to vacuum simulation: ELENA case study**

**Speaker**

Julia Anna Li Hellstrom

### **Uniform Magnetic Fields Effects on Secondary Electron Emission of Polycrystalline Copper**

**Speaker**

Holger Neupert

**The LIU Project: Vacuum performance simulation of the upgraded SPS accelerator****Speaker**

Diogo Miguel Dos Santos Mendes Vilar Murteira

**The LIU Project: Vacuum performance simulation of the upgraded PS complex****Speaker**

Joel Bruno Gomes

**Investigations by simulation for ionization type gauges suitable as vacuum transfer standard****Speaker**

Berthold Jenninger

**Pressure evolution studies in the LHC beam pipe vacuum system at room temperature****Speaker**

Elena Buratin

**Radio frequency surface resistance measurement of metals for accelerator vacuum chamber****Speaker**

Omid Seify

**Electron stimulated desorption yield of technical materials used in the LHC vacuum system****Speaker**

Simone Callegari

**Electron impact on the cryosorbed gas of selected accelerator materials.****Speaker**

Bernard Henrist

**Experiments on exhaust performance by NEG applied pumping system****Speaker**

Mr Hyunjoo SON

**Field-emission investigations of micro-structured stainless steel ASTM 304****Speaker**

Dr Wolfram Knapp

**Outgassing Measurements of Laser Engineered Copper Surfaces****Speaker**

Ivo Wevers

**Liquids in vacuum. Atomic Layer Injection for studying the origin of life.****Speaker**

Dr Jesús Manuel Sobrado Vallecillo

**Conceptual design of the FCC-ee vacuum and pumping system**

**Speaker**

Roberto Kersevan

**The flow through a long rectangular channel and the angular distribution of the emitted molecules****Speaker**

Dr norio ogiwarra

**The Vacuum System of the Photon Transport Beamlines at the European XFEL Facility.****Speaker**

Mr Raúl Villanueva

**Mimicking cosmic dust in the laboratory. The STARDUST machine****Speaker**

jesus Sobrado

**Modeling of Vacuum Systems: Discrete and Continuum Physical-Mathematical Approaches****Speaker**

Dr Francisco Tadeu Degasperi

**A theoretical study of Ni segregation through NiTi /tio2-x****Speaker**

Dr Alfredo Juan

**Development of radiation hard and magnetic field compatible vacuum gauges for the ITER project****Speaker**

Bastien Boussier

**Vacuum leak testing system for the propulsion system of large spacecraft****Speaker**

Prof. Lichen Sun

**The finite element analysis of vacuum leak detection container****Speaker**

Prof. Donghui Meng

**The leak detection methods of the electric propulsion spacecraft researched after xenon filled****Speaker**

Prof. dou renchao

**Study on the helium permeability of graphene oxide membranes for leak testing****Speaker**

Guohua Ren

**Process optimization of AZO thin films with Al2O3 buffer layers prepared by RF magnetron sputtering****Speaker**

Prof. Guangyu Du

**Research on the Optical-Electrical Characteristic of Amorphous Silicon Thin Film**

18:20

**Speaker**  
Prof. Kun Liu