



Società Chimica Italiana

Divisione di Spettrometria
di Massa<http://www.spettrometriadi massa.it>

DSM Speciale GIOVANI: lavori in corso

Posizioni aperte riguardanti la spettrometria di massa

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology ZurichEuropean Research Council
Established by the European Commission

Ph.D. Student Position, *in situ* Nanospectroscopy

We seek to fill a Ph.D. student position funded by an ERC Advanced grant. The topic of the Ph.D. thesis will be on the development and application of tip-enhanced Raman spectroscopy (TERS) to study sensitive 2-dimensional molecular layers. TERS combines scanning probe microscopy, capable of sub-nanometer topographic resolution, with Raman spectroscopy, which provides a rich chemical fingerprint of analytes. TERS can perform chemical mapping with a resolution below 5nm and is compatible with ambient and liquid conditions.

Our goal is to demonstrate chemical nanoscale resolution on model biological systems such as supported lipid bilayers. The work in this Ph.D. project involves the development and use of TERS in liquid to study biomaterials in their natural environment. *In situ* TERS can open valuable research opportunities in domains as varied as biochemistry, catalysis and materials for energy applications.

Prerequisites: M.Sc. degree, Diploma or equivalent in Chemistry or related area, strong background in analytical chemistry, physical chemistry and instrumentation. Motivation to work with sophisticated instrumentation, spectroscopy, and computer-assisted data evaluation is important. This position provides the opportunity to work with state of the art nanoscale spectroscopy and advance our understanding complex interfaces in their natural state. Collaborations and presentation at national and international conferences are encouraged.

Earliest possible starting date: **1. September 2018.**

Applications should be sent via email to Prof. Renato Zenobi by **May 31, 2018.**

A complete application package will contain a CV, a publication list, transcripts & grades received and 2 letters of recommendation.

For further information, see <http://www.zenobi.ethz.ch/> → Research → Nanoscale Analysis or contact:

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Prof. Renato Zenobi (zenobi@org.chem.ethz.ch)

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PREMIO DSM-SCI 2018

in memoria di Bruno Gioia

PER GIOVANI OPERANTI NEL CAMPO

DELLA SPETTROMETRIA DI MASSA



Scadenza: **30 giugno 2018**

Prossimi Eventi



3rd M Pharma School

CNR, ICB, Pozzuoli (NA)

16-17 maggio 2018

2nd GCxGC-MS School
Flavour and Fragrance Applications

Torino
24 - 25 Maggio 2018

6th MS J-DAY



I GIOVANI E LA
SPETTROMETRIA
DI MASSA

 R O M A

2 8 - 0 5 - 2 0 1 8



3rd MS-Wine School

19-20 giugno 2018