



DIVISION OF MASS SPECTROMETRY
Italian Chemical Society

International Mass Spectrometry Conference (IMSC 22)

Florence, Italy

August 26-31, 2018

Celebrating 60 years of IMSC

22nd International Mass Spectrometry Conference



**One of the most beautiful
cities in the world**

Open sky museum

**Green, small,
clean, safe**





F I R E N Z E
C O N V E N T I O N B U R E A U



Why Florence?

Unique historical heritage

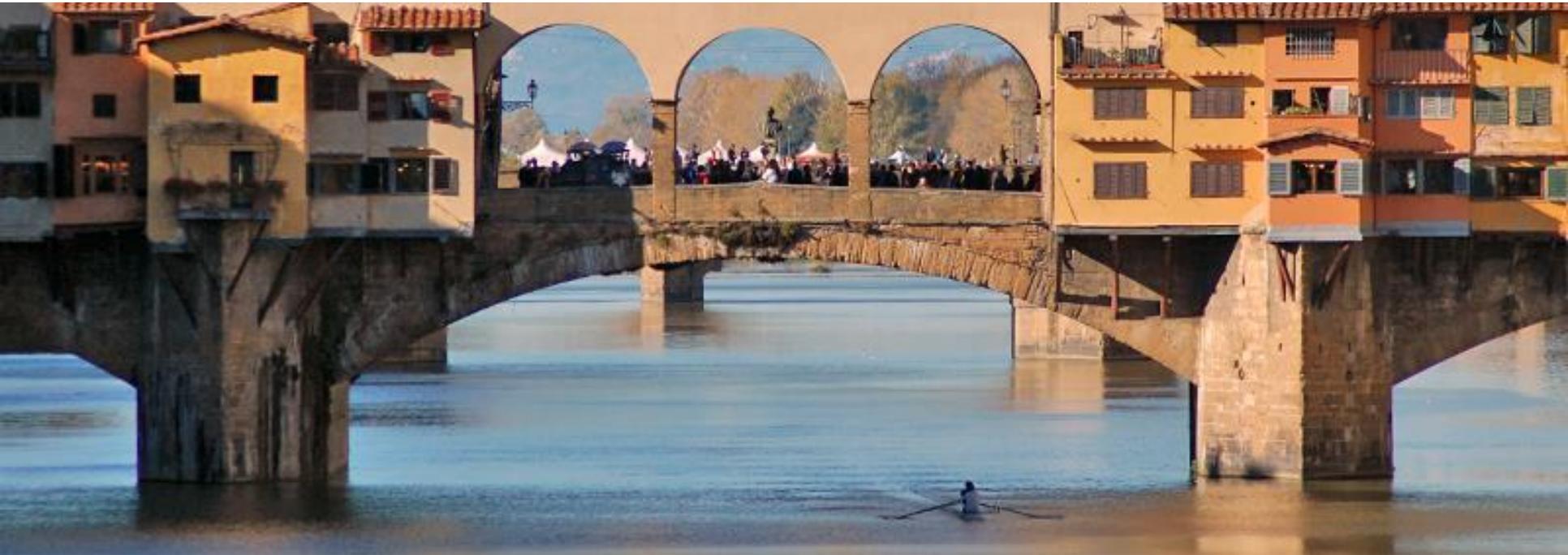
Very friendly people

Mediterranean climate

**Delicious and healthy
food**



A
r
t



Culture



UNIVERSITÀ
DEGLI STUDI
FIRENZE

1321



Museums





Theatres

Italian fashion and leather goods brands



Salvatore Ferragamo



roberto cavalli

GUCCI



ENRICO
COVERI



EMILIO PUCCI

Industry & technology

..... flavors of antique wisdom



Tuscan cooking and its tradition

..... flavors of antique wisdom



Tuscan cooking and its tradition

..... flavors of antique wisdom



Chianti & Super Tuscan Wines

Easy to reach
.... by plane



Easy to reach
... by plane



Intercontinental flights

Conference Site and Infrastructures



The Fortezza da Basso is a masterpiece of the military Renaissance architecture, commissioned by Duke Alessandro de' Medici, planned by Antonio da Sangallo il Giovane and built between 1534 and 1537.

Conference Site and Infrastructures



Hotels



**for all categories of
accommodation**

Hotel Accommodation

Rating	Hotels	BedRooms	Beds	€
*****	13	813	2.261	175-290
****	85	6.634	14.341	100-160
***	145	4.705	10.805	65-145
**	80	1.323	2.968	40-65
*	56	561	1.210	30-40
Tot.	379	14.036	31585	

B&B € 45-50

Hostels
800 beds € 25-35

Centrally located

75% of Hotel Within walking distance
from the Congress Citadel

Elegant and exclusively designed Hotels
with a high standard of quality offered
in all categories of accommodation





University residences

Double room: € 26/person/night

Single room: € 31/night

Double room: € 21/person/night

Single room: € 26/night

Apartments



Conference Program

Short Courses

Awards

Plenary & oral sessions

Workshops

45

Commercial Exhibition

Poster program

Social Program



- **A) LIFE SCIENCES (14)**

- Clinical proteomics
- Quantitative proteomics
- Post Translational Modifications
- Nucleic acids
- Native MS and structural proteomics
- Mass spectrometric analysis of forensic science evidence
- Therapeutic drug monitoring and drug discovery
- Metabolomics
- Lipidomics
- Glycomics, saccharides and glycoconjugates
- MS tools in doping & toxicology
- Clinical chemistry
- Single cell
- MS imaging: applications

- **B) INSTRUMENTATION AND METHODS (9)**

- Hyphenated techniques
- FTMS and innovative methods for (bio)analyses
- High resolution MS: instrumentation, methods & applications
- Developments and applications in ion mobility MS
- Petroleomics, hydrocarbons and biofuels
- Ion activation and dissociations
- Ambient and new ionization methods
- MS imaging: instrumentation
- Informatic tools and data analysis



- **C) FOOD AND BEVERAGE (5)**

- Novel food; nanoparticles in food and beverage; future applications
- Food addition contaminants
- Food integrity, authenticity & traceability
- Safe & valuable food
- Nutraceuticals directions

- **E) ORGANIC AND INORGANIC MS:**

- **CHALLENGES & APPLICATIONS (8)**

- Environmental MS
- Natural substances and their complexes
- Materials & nanomaterials
- Cultural heritage and archaeology
- Polymers
- Pharmaceuticals
- Atomic mass spectrometry: metallomics and isotope ratio mass spectrometry
- Volatile molecules & nose-space analysis

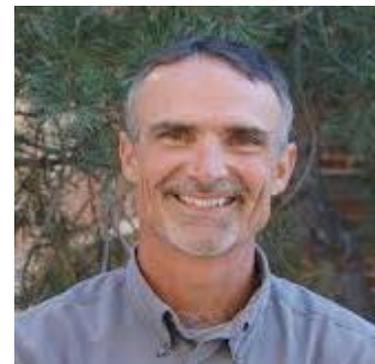
- **D) FUNDAMENTAL MASS SPECTROMETRY (8)**

- Ion spectroscopy & Photodissociation
- Chiral discrimination
- Gas phase ion chemistry & thermochemistry
- Astrochemistry
- Noncovalent interactions
- Metal and non-metal clusters: gas phase structures and reactivity
- Reaction mechanisms and elusive intermediates
- Hydrogen-deuterium exchange, ion-molecule and ion-ion reactions

Plenary lecturers and keynote speakers







to be completed

Short courses

- 1) Fundamentals of mass spectrometry**
- 2) Foodomics & mass spectrometry**
- 3) Mass Spectrometry imaging**
- 4) Expanded newborn screening by tandem mass spectrometry**
- 5) Solid-Phase Microextraction: comprehensive overview of the technology and applications to analytical mass spectrometry**

Workshops

- 1) Food – Consumer interactions by advanced MS techniques**
- 2) Police casework - successes and challenges from an academic perspective**
- 3) Mass spectrometry in virology**
- 4) Integration of native MS with structural biology methods**
- 5) Careers in mass spectrometry**

Workshops

- 6) **Transforming drug discovery and clinical biomarker bioanalysis: it's time for a paradigm shift from SRM to HRMS**
- 7) **Mass spectrometry in microbiology**
- 8) **Advances in protein structure analysis with mass spectrometry**

Young Scientists

FELLOWSHIPS

The **Division of Mass Spectrometry** of the Italian Chemical Society funds 20 fellowships for participation of students and young scientists to IMSC 2018.

Young Scientists

2018 Journal of Mass Spectrometry

Symposium and Travel Award

sponsored by the *Journal of Mass Spectrometry (Wiley)*

to be presented at the
22nd International Mass Spectrometry Conference,
Florence (Firenze), Italy August 26-31, 2018

For further details about the conference: <http://www.imsc2018.it/>

5 Postgraduate Awards

Young Scientists



IMSF calls for applications for the:

Nico Nibbering Student Travel Awards

“Celebrating the joyous legacy of Prof. Nico Nibbering in international mass spectrometry through supporting the next generation of mass spectrometrists from all over the world to attend the International Mass Spectrometry Conference”

!!! A NEW OPPORTUNITY FOR IMSC2018 !!!

Child Daycare

- Daycare activities provided for children (age: 1 – 10) in a dedicated and equipped space during the conference (Mon-Fri, from 8 am to 7 pm).
- All teachers are native English speakers



NEW for IMSC !!

Expected attendees

≥ 2000

Pre- & Post Conference Tours

Sightseeing - Tuscany & Italy





Inferno's Secrets

Saturday, August 25th 2018



Pisa

Sunday, August 26th 2018



Uffizi

Tuesday, August 28th 2018



**Wine Tasting and
Dinner in Chianti**

Tuesday, August 28th 2018



**Diladdarno and
Chiesa del Carmine**

Wednesday, August 29th 2018



Michelangelo's Masterpieces

Thursday, August 30th 2018



Rome

*Friday, August 31st through
Sunday, September 2nd 2018*



**Siena, San Gimignano
and Monteriggioni**

Saturday, September 1st 2018

www.imsc2018.it



**International Mass
Spectrometry Conference**

IMSC 22

Florence, Italy

August 26-31, 2018

***Celebrating 60
years of IMSC***

Florence makes the difference

**Enjoy the 22nd IMSC
in Florence!**

All of you are kindly invited!

