

2023 International Conference on “Nonlinear Optics at Interfaces”

Temple Rome

June 5-8th, 2023

Temple University Rome Campus

Lungotevere Arnaldo da Brescia, 1500196 Rome RM, Italy



We acknowledge the generous support of:

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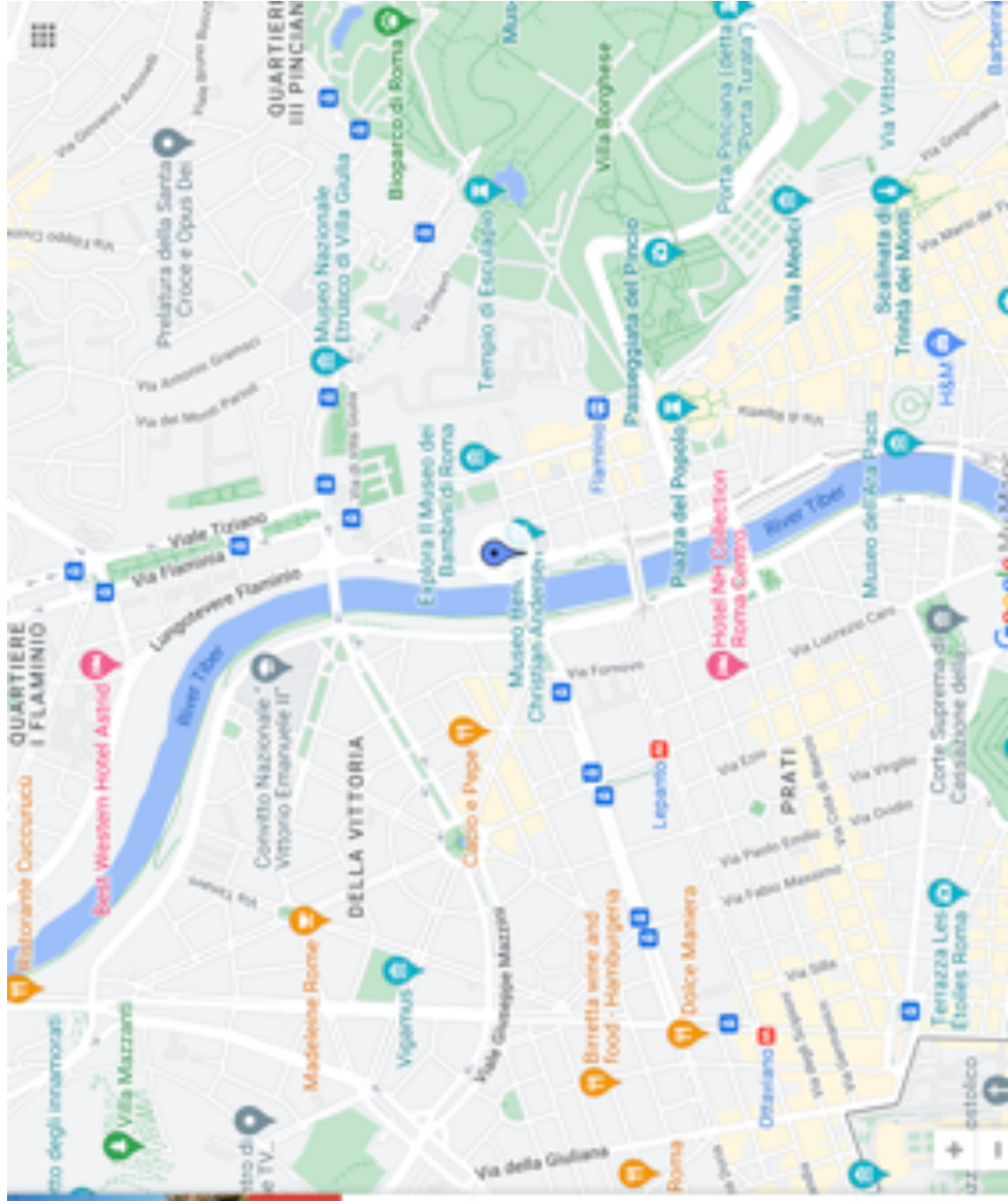
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10 photos from Google Maps





Metro A
Lepanto Station

Albergo Etico
Roma

Temple University
Rome Campus

Metro A
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Possible lunch sites:

Please note, some are not open on Mondays, most will require reservations if larger than 2/3 people. There are many other places you may find as you explore Rome on your lunch break.

Albergo Etico (Via Giuseppe Pisanelli 39, Rome)

Goody (Via Flaminia 23)

Le Galline (Via Cesare Beccaria, 1- 3)

Giando (Via Francesco Carrara 12)

Style (Via Flaminia 101)

Da Michele Pizzeria (Via Flaminia 82)

Temple Rome Facilities:

Since 1966, Temple University Rome is housed in the **Villa Caproni**, a beautiful and historic building facing the Tiber River in the heart of Rome, an ideal setting for a study abroad center.

Just north of Piazza del Popolo, Temple Rome is conveniently located in a neighborhood that is great for exploring many areas of the city, especially the historical center. Living accommodations, the Spanish Steps and the Borghese Gardens are within short walking distance.

At its half-century mark, Temple Rome got a facelift to increase classroom space, enhance technology capabilities, and give us more and innovative flexible teaching and public spaces for the next 50 years. From a magnificent new aula magna (meeting room) for conferences and all-school gatherings, to a state-of-the-art technology center, four gleaming smart classrooms, a renovated sculpture studio, and brand-new bathroom facilities, our campus rang in her 50th with grace, style and hi-tech beauty.

Other stunning facilities include a variety of “smart” classroom spaces, well-equipped and professional studios for visual arts, printmaking, darkroom, digital photo, sculpture, painting and architecture, a computer lab and wireless Internet system, student lounges, a large and contemporary art gallery and a library which is one of the largest English language libraries in Rome with over 14,000 volumes.



For more information on Temple Rome please visit: <https://rome.temple.edu/>

Day	Time	Speaker (Last, First)	University	Title of Talk
Monday	8:50	Dai, Borguet, and Emilia Zankina (TU Rome Dean)	Temple University	Opening Remarks
Monday	9:00	Berman	Session Chair	Prospects of surface sum-frequency spectroscopy
Monday	9:30	Ron Shen	UC Berkeley	Interfacial dielectric constant and sum-frequency generation spectra of water ions at charged interfaces
Monday	10:00	Yudi Nagata	MPG Mainz	
Monday	10:00	Eric Tyrode	KTH Royal Inst. Of Technology	
Monday	10:30	COFFEE		
Monday	11:00	Callhoun	Session Chair	Boundary effects in SFG calculations and quadrupole contribution
Monday	11:00	Morita Akihito	Tohoku University	Surface SFG Spectroscopy of Water
Monday	11:30	Yamaguchi Shoichi	Saitama University	
Monday	12:00	LUNCH		
Monday	12:00	No afternoon session		
Tuesday	9:00	Gassin	Session Chair	Hydrophobic aqueous nanoscale interfaces
Tuesday	9:00	Pierrel-Marie Saranya	EPFL	Two stories of water at aqueous interfaces by coupling DFT-MD simulations and SFG spectroscopy; a new measure of molecular hydrophobicity/hydrophilicity, a new direct measurement of the aqueous silica top-surface reconstruction under pH
Tuesday	9:30	Galepot	Marie-Pierre	
Tuesday	10:00	More Dennis	Paris-Saduy, Evry U. Of Victoria	SFG as an Orientation-independent Probe of Molecular Environments at Interfaces
Tuesday	10:30	COFFEE		
Tuesday	11:00	Velarde	Session Chair	New experimental paradigms for chiral-selective spectroscopy of interfacial assemblies
Tuesday	11:00	Simpson Garth	Purdue University	Recent progress on SFG and SFG studies of the soft material interfaces in our lab
Tuesday	11:30	Gan Wei	Shenzhen	Detecting first hydration shell of biomolecules at interfaces
Tuesday	12:00	Yan Elsa	Yale University	
Tuesday	12:30	LUNCH		
Tuesday	2:00	Borguet	Session Chair	Second Harmonic Scattering in Colloidal Suspension: from polarization resolved measurements to a microscopic organization
Tuesday	2:00	Gassin Eric	Montpellier	Interfaces of Nanoparticles: an Approach with hyper Rayleigh Scattering from ensemble to single nanoparticles
Tuesday	2:30	Brevet Pierre-Francois	Lyon	
Tuesday	3:00	COFFEE		
Tuesday	3:30	Bonhomme	Session Chair	Probing the impact of the growth phase on drug transport across individual membranes of E. coli
Tuesday	3:30	Chandra Manabendra	Indian Institute of Technology, Kanpur	Antibiotics Insights from Living Bacterial Membranes with Second Harmonic Scattering
Tuesday	4:00	Callhoun Tessa	U. Of Tennessee	Probing Membrane Asymmetry through Second Harmonic Light Scattering
Tuesday	4:30	Dai (15 mins)	Temple University	
Wednesday	9:00	Dai Hui-Lung	Session Chair	In Situ Electrochemical SFG Probe of Electrode Induction Effects on the Dynamics and Reactivities of Adsorbed Molecules
Wednesday	9:00	Lian Tim	Emory	Ultrafast nonlinear photoelectron spectroscopy and microscopy of metals in frequency, time, momentum, and spatial domains
Wednesday	9:30	Petek Hrvolje	U. Of Pittsburgh	
Wednesday	10:30	COFFEE		
Wednesday		Wang Hongfei	Session Chair	Nonlinear Interferometer for Complex Spectral Measurement: a Sensitive Probe of Complex Interfaces
Wednesday	11:00	Shultz Mary	Tufts	Molecular Structures and Dynamics of Electrochemical and Optoelectrical Interfaces
Wednesday	11:30	Xiong Wei	UCSD	
Wednesday	12:00	Lu Zhou	Anhui Normal	
Wednesday	12:30	LUNCH		
Wednesday	2:00	Krummel Amber	Session Chair	Sum Frequency Generation Vibrational Spectroscopy on Nanocatalyst
Wednesday	2:00	Nien Dalian		Probing water at the gold-water interface
Wednesday	2:30	Peterson Bochim		Substrate-dependent symmetry and dynamics of MoS2 monolayer studied by sum frequency spectroscopy
Wednesday	3:00	Tong Yujin	Duisburg-Essen	
Wednesday	3:30	COFFEE		
Wednesday	4:00	Gassin	Session Chair	Implications of interfacial molecular organization in chiral photonic materials and in nanorobotology
Wednesday	4:00	Velarde Luis	Buffalo	Probing the valence electronic properties, interfacial solvation structures and ozonolysis products of aqueous aerosols using VUV photoelectron spectroscopy
Wednesday	4:30	Wang Chia C.	National Sun Yat-sen University (Taiwan)	
Wednesday	5:00	Dai (15 mins)	Temple University	Low Concentration Organic Molecules Reside Mostly at the Surface of Airborne Aerosol Particles – A study by Second Harmonic Light Scattering
Thursday	9:00	Wang Hongfei	Session Chair	Sub-wavelength Resolution Broadband Sum-Frequency Generation For Everybody: Advances at Westlake University
Thursday	9:30	Krummel Amber	Westlake	Hot Carrier Extraction and Charge Carrier Dynamics in a ML-MoS2 Photoelectrochemical Cell."
Thursday	10:00	Lu Weitao	Colorado State U. Fudan University	Lattice vibrations at charged oxide water interface probed by sum-frequency spectroscopy
Thursday	10:30	COFFEE		
Thursday	11:00	Tong Yujin	Session Chair	Development of ab initio anharmonic algorithms to understand vibrational coupling
Thursday	11:00	Kuo Jer-Lai	Inst. for Atomic & Molecular Science	Observation of specification effects at the surface of water
Thursday	11:30	Baskler Huib	AMOLF	Water interfaces from ab initio molecular dynamics: structure, dynamics, reactivity
Thursday	12:00	Suljazi Merilore	Bochum	
Thursday	12:30	LUNCH		
Thursday	2:00	Chuan-shan Yan	Session Chair	Surface-specific nonlinear optical spectroscopy in extended spectral range
Thursday	2:30	Oriane Tian	Fudan University	From the modeling of Second Harmonic Generation intensity of pure air/water interface to the investigation of surfactant organization at liquid/air interface.
Thursday	3:00	Borguet Eric	Bonhomme Lyon Temple University	Probing the liquid-solid interface vDOS via ultrafast vSFG
Thursday	3:30	COFFEE		
Thursday	3:30	Berman	Session Chair	Elucidation of pH-Dependent Electric Double Layer Structure at the Silica/Water Interface Using Heterodyne-Detected Vibrational Sum Frequency Generation Spectroscopy
Thursday	3:30	Tahara Riken		Chemistry, not Physics, Determines the Vibrational Sum-Frequency Generation Responder of Water at an Electrochemical Electrode
Thursday	4:00	Bonn Mischa	MPG Mainz	