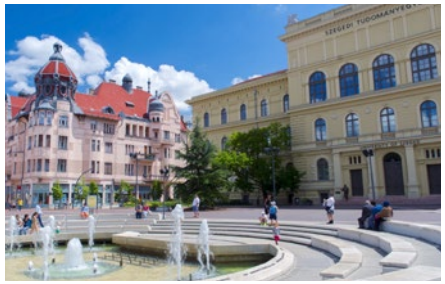
ecoss 33

27 AUG. – 1 SEPT. 2017
SZEGED, HUNGARY

33rd EUROPEAN CONFERENCE ON SURFACE SCIENCE



FINAL PROGRAM

www.ecoss2017.org

CONFERENCE SECRETARY: **Régió-10 Ltd.** • Dugonics sq. 12, H-6720 Szeged, Hungary
Phone/fax: +36 62 710 500 • E-mail: ecoss33secretariat@regio10.hu • www.regio10.hu

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WELCOME OF THE CHAIR

On behalf of the Organizers we cordially welcome you on **33rd European Conference on Surface Science** (ECOSS-33) organized in Hungary, Szeged. ECOSS is a traditional annual meeting directed jointly by the Surface Science Division of the International Union for Vacuum Science, Technique and Applications (IUVSTA) and the Surface and Interface Section of the European Physical Society (EPS). The conference provides an excellent opportunity for scientists from Europe and from all over the world to meet and discuss the latest advances in surface physics/chemistry and the progress of the surface science approach of the related innovation fields of heterogeneous catalysis, nanoelectronics, bio-nanoscience and light–matter nanotechnology. Szeged, crossed by the Tisza River is a university town of a long cultural tradition in the centre of the Carpathian Basin. The beautiful downtown of Szeged and the pleasant weather in August provide an excellent background for this conference.
Enjoy the conference and the town!

András Berkó
Chair of ECOSS-33

Frigyes Solymosi
Honorary Chair

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Professor, Doctor of MTA

Honorary Chair

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Professor Emeritus, Member of the Hungarian Academy of Sciences and of the European Academy

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INFORMATION ABOUT THE ECOSS SERIES

ECOSS is organized jointly by the Surface Science Division of IUVSTA (the International Union for Vacuum Science, Techniques and Applications, www.iuvsta.org) and the Surface and Interface Section of the European Physical Society (EPS, www.eps.org). The conference does not run in years when the triennial IUVSTA Vacuum Congress is held in Europe.

1978 Amsterdam (NL)
1979 Cambridge (UK)
1980 Cannes (FR)
1981 Münster (DE)
1982 Gent (BE)
1984 York (UK)
1985 Aix-en-Provence (FR)
1986 Jülich (DE)
1987 Luzern (CH)
1988 Bologna (IT)
1990 Salamanca (ES)
1991 Stockholm (SW)
1993 Warwick (UK)
1994 Leipzig (DE)
1995 Lille (FR)
1996 Genova (IT)
1997 Enschede (NL)
1999 Vienna (AT)
2000 Madrid (ES)
2001 Krakow (PL)
2002 Malmö (SW)
2003 Prague (CZ)
2005 Berlin (DE)
2006 Paris (FR)
2008 Liverpool (UK)
2009 Parma (IT)
2010 Groningen (NL)
2011 Wroclaw (PL)
2012 Edinburgh (UK)
2014 Istanbul (TR)
2015 Barcelona (ES)
2016 Grenoble (FR)

CONFERENCE VENUE

SZTE-TIK Congress Centre, H-6722 Szeged, 10 Ady sq.

The Congress Center is a ten-year old modern building of the university called Education and Information Center (TIK in Hungarian) which also gives home to the university library. It is in easy walking distance from the city center. The inner Atrium Area of TIK offers generous space for the exhibition and poster sessions on the ground floor, moreover at the first level (together with the ground floor) there is plenty of place for catering. The Congress Hall will be the place for the Opening and Closing Ceremonies and the plenary sessions. Its capacity is 660 seats. The five palallel sessions wil be held in the same building in the rooms (Hall-A, Hall-B, Hall-C, Hall-D, Hall-E) of 100-150 seats.

Official language

The official language of the conference is English.

Wi-Fi access

You can have your individual WI-FI code at the registration desk.

Badges

All delegates, exhibitors and visitors must wear their name badges at all time to admit admittance to the areas of the Congress Centre.

Publication

There will be no publication of a complete set of proceedings. A USB stick containing all the abstracts is distributed with the delegate's bag.

Opening hours

REGISTRATION DESK

Sunday 27 August	15:00 – 19:30
Monday 28 August	08:00 – 16:00
Tuesday 29 August	08:00 – 19:30
Wednesday 30 August	08:00 – 17:00
Thursday 31 August	08:00 – 18:30
Friday 1 September	08:00 – 12:40

EXHIBITION

Tuesday 29 August	08:00 – 19:30
Wednesday 30 August	08:00 – 17:00
Thursday 31 August	08:00 – 18:30

Disclaimer

The program is preliminary. The organizers reserve the right to alter the program if and as is deemed necessary.
The ECOSS-33 organization and/or its agents have the right for any reason beyond their control to alter or to cancel, without prior notice, the Conference or any of the arrangements, time tables, plans or other items relating directly or indirectly to the Conference.

The ECOSS-33 organization and/or its agents shall not be liable for any loss, damage, expenditure or inconvenience caused as a result of such alteration or cancellation.

Oral presentation guidelines

PowerPoint projection will be available in the session rooms which are equipped with a laptop or desktop computer, a projector, a microphone and a pointer. All the hardware elements will be provided by the organizers to ensure consistency in technical quality and allow for quick and smooth transition between the speakers. The presenters can upload their lectures in the halls where their lecture will be held. There will be technical assistance in every lecture room before and during the sessions.
If the presentation contains very special characters or needs other fonts, they have to be provided by the speaker. If not embeded the video files attached to the presentation must be located in the same folder as the presentation files.

PLENARY TALK: 45 min + 5 min discussion;
INVITED AND KEYNOTE TALK: 35 min + 5 min discussion;
ORAL TALK: 17 min + 3 min discussion)
The Chairpersons of the Sessions will be strict on timing.

Instructions for presentation

Supported presentation types:

• MS Office • Adobe PDF • Prezi

Following mass storage devices are accepted:

• CDROM / DVD • external HDD
• USB stick • via net connection

We strongly recommend that you save your presentation on two different devices.

Presentation's Privacy:

At the end of the congress, ALL presentations and associated files will be deleted.

Poster presentation guidelines

General Information
The poster exhibition will be held on the ground level of the conference site. Your poster board will be marked with the same marker as listed in the Programme Book (for example – Tue-PS1-22 or Thu-PS2-17) and which has been given in your personal e-mail notification. Poster Presenters must ensure that their poster is fixed to the corresponding numbered board on the relevant days according to the Scientific Programme.

Poster format
Panels for individual posters will be A/0 1189 mm wide and 841 mm high (LANDSCAPE orientation). Suitable tape or pins will be provided at the welcome desk.

Poster placarding
The posters will be displayed in two groups: the first group on Monday–Tuesday (Poster Session-1 or PS1) and the second group on Wednesday and Thursday (Poster Session-2 or PS2). The presenting authors are asked to placard their posters at the begining of their group period (Monday or Wednesday morning), they should be present at the poster during the appropriate sessions listed below and remove their posters at the latest Wednesday or Friday early morning.

PS1 - POSTER SESSION-1
Tuesday 29 August 18:00 – 19:30

and

PS2 - POSTER SESSION-2
Thursday 31 August 17:00 – 18:30

EPS INVITED SPEAKER GRANT

The Grant sponsored by the European Physical Society and consisting of 500 EUR was given to one of the invited speakers awarded by the „ad hoc" Prize Committee.

WANG, Yeliang
Institute of Physics & University of Chinese Academy of Sciences, Beijing, China
Manipulation of individual atoms/molecules on surfaces of 2D atomic crystals: From Kondo effect to reversible single spin control
INVITED presentation – Mon-14:00-I-SAMA / HALL-C

EPS STUDENT GRANT

The Grant sponsored by the European Physical Society was given to three young researchers studying/working at an European Institution, who received their PhD degree not more that 6 years prior to the application and has oral presentation. The Grant consists of 300 EUR in cash and the organizers offered a student participation for free or a regular participation for a reduced fee (50%) and gratis a Conference Dinner Ticket to the Winners awarded by the „ad hoc" Prize Committee. The selection is based on the submitted application corresponding to the guidelines listed on the conference home page.

BARROOW, Cédric
Free University of Brussel, Brussel, Belgium
Real-time observation of diffusive processes by field emission microscopy
ORAL presentation – Mon-15:20-O-CATL / HALL-A

KE, Chun-Ren
The University of Manchester, Manchester, United Kingdom
In situ investigation of degradation at metal halide perovskite surfaces by near ambient pressure X-ray photoelectron spectroscopy
ORAL presentation – Thu-15:00-O-ENER / HALL-B

MAJZIK, Zsolt
IBM Research-Zürich, Rüschlikon, Switzerland
Characterization of polycyclic conjugated hydrocarbons by means of NCAFM
ORAL presentation – Mon-14:40-O-SAMA / HALL-C

IUVSTA-ELSEVIER STUDENT AWARD

The award sponsored by the fund founded per IUVSTA & ELSEVIER collaboration was given to five research student aged less than 30 and within 7 years of obtaining their first degree. The total financial support of 400 EUR contained their student participation fee and 180 EUR in cash. As gratis, the organizers offered a free Dinner Ticket to the Winners who were selected on the basis of the application guidelines listed on the conference home page.

CAREY, J Spencer
University of Washington, Seattle, USA
Energetics of adsorbed molecules and molecular fragments on Ni(111) by microcalorimetry
ORAL presentation – Thu-14:20-O-ORGS / HALL-E

ITO, Suguru
University of Tokyo, Tokyo, Japan
Solving mysteries in pure bismuth by quantum confinement
ORAL presentation – Wed-16:20-O-BAND / HALL-B

MOHRHUSEN, Lars
Carl von Ossietzky University Oldenburg, Germany
Electrostatic Shielding versus Sterical Ligand Stabilization: Tunable Nanocrystal Stabilization Mechanisms
POSTER presentation – Thu-PS2-18 / Poster Session-2

SAHA, Prithwidip
Indian Institute of Technology, Kanpur, India (oral presentation)
Ultrathin film polymorphs of ferrocene derivatives assisted by functional groups and solvents
ORAL presentation – Thu-10:00-O-MOLA / HALL-A

VAJDLE, Olga
University of Novi Sad, Novi Sad, Serbia (poster)
Comparison of multiwalled carbon nanotubes modified with silver and gold particles as surface modifiers of carbon
POSTER presentation – Tue-PS1-50 / Poster Session-1

ECOSS PRIZE CANDIDATES

The ECOSS Prize of 1.500 EUR is sponsored by SPECS and will be awarded to the Best Oral Presentation. The candidates had to submit their application before the beginning of the conference in accordance with the application guidelines listed on the conference home page. The applicant must be a PhD student or PostDoc with PhD from 2017. The winner will be rewarded during the Closing Ceremony and the applicants should be present.

ALEV, Onur Gebze
Technical University, Gebze, Turkey
Enhanced Gas Sensing Properties of Cu-doped ZnO Nanorods
Tue-16:40-O-OXID / HALL-C

BLOMBERG, Sara
Lund University, Lund, Sweden
In situ Structural Studies and Gas Phase Visualization of Model Catalysts at Work
Thu-14:40-O-CATH / HALL-A

GRØNBORG, Signe S
Aarhus University, Aarhus, Denmark
Hydrogen-induced crystal reshaping and edge vacancy formation in MoS2 catalyst particles on Au(111)
Thu-9:00-O-CATH / HALL-B

HÖTGER, Diana
Max Planck Institute for Solid State Research, Stuttgart, Germany
On-Surface Transmetalation of Fe-Porphyrin Network on Au(111)
Tue-10:40-O-ORGS1 / HALL-B

ITO, Suguru
University of Tokyo, Tokyo, Japan
Solving mysteries in pure bismuth by quantum confinement
Wed-16:20-O-BAND / HALL-B

KE, Chun-Ren
The University of Manchester, Manchaster, UK
In situ investigation of degradation at metal halide perovskite surfaces by near ambient pressure X-ray photoelectron spectroscopy
Thu-15:00-O-ENER / HALL-B

KISHIDA, Ryo
Osaka University, Osaka, Japan
Intramolecular cyclization of o-quinone amines with a focus on dopamine-quinone: a density functional theory based study
Thu-16:00-O-ORGS / HALL-E

KREMER, Geoffroy
CNRS University of Lorraine, France
Band structure of one single layer of silica on Ru(0001)
Tue-15:00-O-OXID / HALL-C

LAKER, Z P Lewin
University of Warwick, Coventry, United Kingdom
Supramolecular assembly on top and underneath 2D materials: Can molecules interact across a graphene barrier?
Tue-14:00-O-EG2D / HALL-E

MESSAYKEH, Maya
CNRS Pierre and Marie Curie University, Paris, France
Probing in situ the wetting at metal/oxide interface via plasmonics combined with photoemission
Tue-12:00-O-OXID / HALL-C

ZABKA, Wolf-Dietrich
University of Zürich, Switzerland
From 2D to 3D Alumina: Interface Templated Growth of γ-Al2O3(111)-like Films
Tue-14:40-O-OXID / HALL-C

EPS POSTER PRIZE APPLICANTS

The Prize of 500 EUR is mutually sponsored by European Physical Society (EPS) in a value of 200 EUR and the Organizers (300 EUR) and will be awarded to the Best POSTER Presentation. The candidates had to submit their application before the beginning of the conference in accordance with the application guidelines listed on the conference home page. The applicant must be a PhD student or PostDoc with PhD from 2017. The winner will be rewarded during the Closing Ceremony and the applicants should be present.

ATTIA, Smadar
Fritz Haber Institute, Berlin, Germany
Enantioselective reactions on chirally-modified model surfaces: A new molecular beam/surface spectroscopy apparatus
Tue-PS1-39 / Poster Session-1

JUHÁSZ, Laura
University of Debrecen, Debrecen, Hungary
Morphology and optical properties of porous gold nanoparticles coated with alumina layer
Tue-PS1-15 / Poster Session-1

MOHRHUSEN, Lars
Carl von Ossietzky University Oldenburg, Germany
Electrostatic shielding versus sterical ligand stabilization: Tunable nanocrystal stabilization mechanisms
Thu-PS2-18 / Poster Session-2

PAVLOV, A Valerievich
Polytechnic University of St. Petersburg, Russia
Spin relaxation length for medium energy electrons in Pd and LiF ultrathin films
Tue-PS1-31 / Poster Session-1

VÁRI, Gábor
University of Szeged, Hungary
Interaction of Au, Rh and Au-Rh alloys with the Hexagonal Boron Nitride monolayer studied on Rh(111)
Tue-PS1-44 / Poster Session-1

HVS STUDENT GRANT&AWARD

The Prize sponsored by the Hungarian Vacuum Society will be awarded to the best presentation (oral or poster) given to a PhD student working at a Hungarian research institute. The Prize contains a financial support of the participation on the next ECOSS conference by covering the participation fee and gratis 150 EUR in cash. The winner will be rewarded during the Closing Ceremony where he/she should be present.

Type of presentations

• Plenary lecture	Plen
• Invited lecture	I
• Keynote lecture	K
• Oral presentation	O
• Poster presentation	PS

Communication code

Mon-9:00-O-CORR ●

Mon – day of the presentation
9:00 – time of the presentation
O – type of the presentation
CORR – “Corrosion at atomic level” session
● Color code session

ORGAN CONCERT

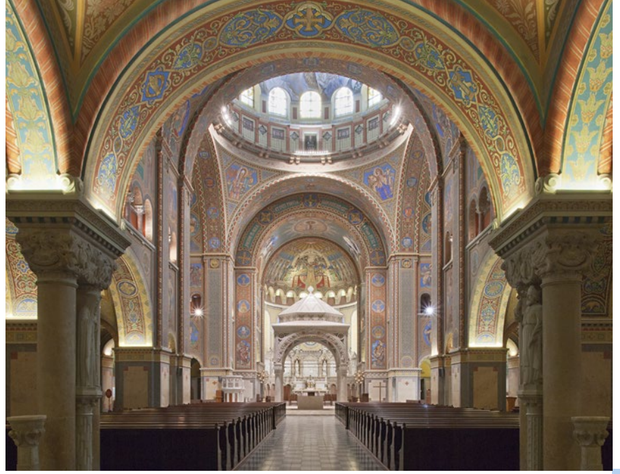
alternative ÓPUSZTASZER NATIONAL PARK

30 August, 2017

Wednesday from 17:30 – meeting point:

Restaurant of the Votive Church's Visitors Centre
(15 Dóm sq, H-6720 Szeged)

The program will start at 18:00



CATHEDRAL DÓM

The original plans by Frigyes Schulek. The cathedral's construction plans were started by Foerk Ernest in 1913. At current location of the Cathedral, the church of St. Demetrius had stood. The foundation-stone ceremony took place on June 21, 1914. The Church was formally dedicated on October 24, 1930.
It is the fourth largest church in Hungary. The dome is 54 m outside (33 m above the inside floor) and the towers are both 91m high. The "Heroes' bell" in the tower on the Tisza side weighs 8600 kg.

ORGAN OF THE VOTIVE CHURCH

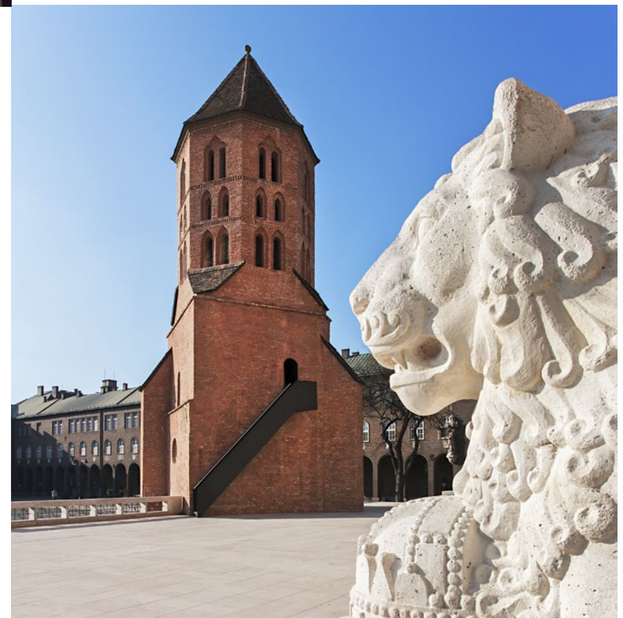
The main organ of the Votive Church was built between 1928 and 1930 in the organ factory of József Angster and his son, in Pécs, Hungary. The disposition was planned by József Geyer. This organ was made with 5 manuals and 99 registers. Most of the pipes are located on the gallery and there is also a remote work in the dome.
In 1930-31 the organ arm was made, its pipes were placed to the two sides of the sanctuary, its playing table was located in the church. This organ was made with 2 manuals and it has 25 sounding register.
For the year of 1932 the whole organ was made, it was the largest organ in Hungary and the third largest in Europe (after Passau and Milan).
There was a plan to expand the organ but because of lack of coverage it was not made.
In 2002 the organ got an electronic playing table which is able to store 1000 tone combination instead of the old 3.

ST. DEMETRIUS TOWER

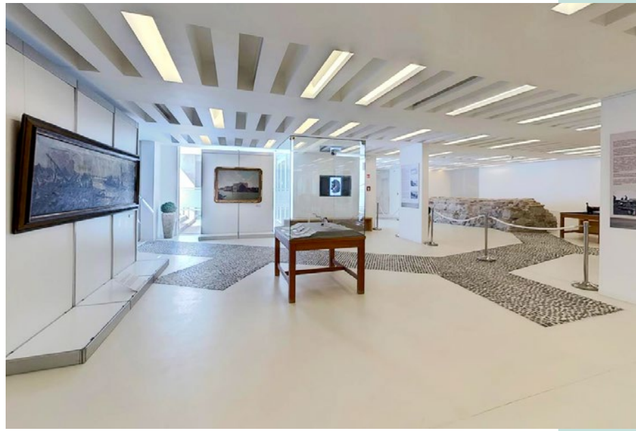
Outside the Votive church stands the Saint Demetrius Tower, the oldest architectural relic of the city. The remain of the church erected in honour of Saint Demetrius of Thessaloniki living in the 4th century is called the Dömötör Tower by the people of Szeged.

MUSICAL CLOCK

The tunes of this unique piece of art by watchmaker Ferenc Csúri could be first heard at the Open Air Festival in 1936. The music clock on the upper level of the building, opposite the main entrance of the Votive Church is a symbol of medieval universities. Twice a day, at 12.15 and 17.45 it shows the walk of the graduating students at the end of the academic year.



SOCIAL PROGRAM



DÓM VISITORS' CENTRE

The iconic symbol of Szeged, the votive church (also known as the Dóm of Szeged), has been renewed as a result of the HUF 2.1 billion EU and national support. In the crypt, a multifunctional exhibition space has been set up which includes an information desk, a pilgrim cafeteria, and art shop and a bookshop. The liturgical space has also been renewed. New bench rows have been added to the transept, the acoustic has been improved, and the western tower along with the Demetrius (Dömötör) Tower has been opened to the public. However, as I mentioned before, these are just the basic facts. The church and the Dóm Square, which combines the characteristics of a Mediterranean style piazza with the formal brick architecture, is a real communal melting pot and the symbolic centre of a new beginning. It is a cathedral, a family-friendly church, a destination of pilgrims, a sacred space, exclusive conference and concert venue, home of the Szeged Open-Air Festival and an open and receptive community magnet. Recently, I got a postcard from Szeged. In the centre of the colourful card, there was the votive church and the Dóm Square. All the other attractions, the downtown bridge, the university, the bath complex have only been shown in smaller pictures. This postcard is a small proof that the city of Szeged is mostly associated with its cathedral and the Szeged Open-Air Festival.

ÓPUSZTASZER NATIONAL PARK

alternative ORGAN CONCERT

30 August, 2017
Wednesday at 17:00 – departure from the conference site by buses
TIK Building of the University of Szeged (10 Ady sq, H-6722 Szeged)

ÓPUSZTASZER

Ópusztaszer is a village in Csongrád county, in the Southern Great Plain region of southern Hungary. It is most known as the location of the Ópusztaszer National Heritage Park.
Our 136-acre theme park less then half an hour drive north of Szeged, invites you to explore the history of Hungary as well as the culture and life-style of people living on the Southern Great Plain. Beautifully nestled in the Pusztaszer Protected Landscape, the Heritage Park marks one of the most sacred and important historical sites in Hungary, Ópusztaszer, where in the year 896 the modern nation of Hungary was born.
Ópusztaszer is the cradle of the state of Hungary. Through its history, it strengthens the nation, and gives hope to future generations. According to Hungarian tradition, it was at this place, around 896 AD that Chief Árpád, the Duke of the Magyars and his chieftains (his leading men) pitched up their tents, and codified the common laws of their new country. Thus, today's Heritage Park is far more than a tourist attraction: it is the place where all Hungarians can turn to in order to strengthen their national identity, to remember and preserve their history, culture, and traditions.

In five distinct areas, the Heritage Park

- exhibits one of Europe's largest panorama paintings, the Feszty-panorama: Arrival of the Conquering Hungarians into the Carpathian Basin
- invites visitors to discover the archeological excavations of a medieval monastery
- raises awareness and appreciation of nature, and understanding of the history of the region through exhibits in the eco-friendly Csete yurts
- replicates village life in a living Open Air Museum with 15 reconstructed buildings from the Interwar Period, and
- offers a visually capturing display of traditional Hungarian horsemanship, including archery, horseback wrestling, racing, and outfits dating back to the time of Genghis Khan and earlier.

CONFERENCE DINNER

The conference dinner will take place at
Tisza Hotel (3 Széchenyi sq, H-6720 Szeged)
on Thursday 31 August 2017, from 19:30.

The planned schedule of the dinner:

- 19:30 Opening of dinner
- 20:30 Dinner
- 23:00 End of the dinner

Tisza Hotel*** that is said to be the most elegant hotel of Szeged and its region, is situated on Széchenyi Square, the main square of the city. The hotel has become famous in the city for its special atmosphere recalling the ambiance of the turn of the century.

The elegant Concert Hall of the Hotel is a unique and representative venue which offers to make our gala dinner unforgettable.
History of Tisza Hotel
The hotel was built right after the reception of the building permit on 25 March 1885. At the beginning it was called „Vigadó" later „Hotel Metropol" finally it was named „Hotel Tisza" at the honour of Prime Minister Kálmán Tisza, who has been in office for 10 years at the time. This is the origin of the hotel's name.

The hotel was closed down in 1949 and reopened in 1963. The new owners renovated the hotel preserving the historical atmosphere but also installing some modern services into the turn of the century environment.

POST-CONGRESS TOUR TO BUDAPEST

1 – 3 September 2017 (participation fee: 250 EUR)

A DAY IN BUDAPEST: PARLIAMENT BUILDINGS, BUDA CASTLE, AND THE MATTHIAS CHURCH

You will find detailed information about the sites to be visited below.

PRELIMINARY SCHEDULE

1 September, 2017 / Friday

14:00 –	Departure from the University Congress Centre by bus
16:30 –	Arrival to Budapest
16:30 – 18:30	Free time
18:30 –	Dinner

2 September, 2017 / Saturday

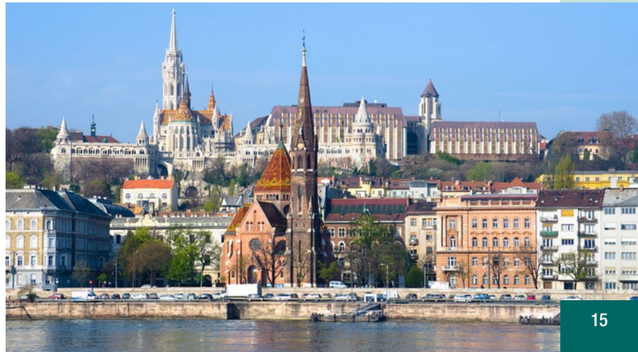
10:00 – 11:30	Sightseeing by bus - Pest area
11:45 – 12:30	Visit the famous Hungarian Parliament
13:00 – 14:30	Lunch at Strudelhouse
14:30 – 17:00	Visit to the Buda Castle, Matthias Church and Fisherman's Bastion by guided tour
17:00 –	Free time
18:30 –	Dinner

3 September, 2017 / Sunday

Transfers to the airport

BUDAPEST

Budapest is the capital and the largest city of Hungary, and one of the largest cities in the European Union. It is the country's principal political, cultural, commercial,industrial, and transportation centre, sometimes described as the primate city of Hungary
The history of Budapest began with Aquincum, originally a Celtic settlement that became the Roman capital of Lower Pannonia.
Cited as one of the most beautiful cities in Europe its extensive World Heritage Site includes the banks of the Danube, the Buda Castle Quarter, Andrássy Avenue, Heroes' Square and the Millennium Underground Railway, the second oldest in the world. Other highlights include a total of 80 geothermal springs, the world's largest thermal water cave system, second largest synagogue, and third largest Parliament building.



SCIENTIFIC TOPICS

- **BAND** Band structure of solid surfaces
- **BIMS** Bimetallic surfaces and alloy nanocrystals
- **CATH** Catalytic 2D-model studies under high pressures
- **CATL** Catalytic 2D-model studies at low pressures
- **COMP** Computational surface chemistry and physics
- **CORR** Corrosion at atomic level
- **EG2D** Epitaxial growth and modification of 2D materials
- **ELAM** Electron attachment of adsorbed molecules
- **ELCH** Electrochemistry at surfaces
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- **SAMA** Structural analysis and manipulation on atomic scale
- **SEMI** Semiconductor surfaces and ultrathin layers

Type of presentations

• Plenary lecture	Plen
• Invited lecture	I
• Keynote lecture	K
• Oral presentation	O
• Poster presentation	PS

Communication code

Mon-9:00-O-CORR

Mon – day of the presentation

9:00 – time of the presentation

O – type of the presentation

CORR – “Corrosion at atomic level” session

Color code session

Rolf Jürgen Behm
Ulm University, GERMANY

Nanostructured metal surfaces – from surface science to electrochemistry / electrocatalysis

Fri-11:20-Plen-7

Charles T. Campbell
University of Washington, USA

Adsorption calorimetry techniques on well-defined surfaces and their application in understanding catalysis, photovoltaics and atomic-layer deposition

Fri-9:20-Plen-5

Young Kuk
Seoul National University, KOREA

Electronic and Phononic Structure Measurements on Superconducting Surfaces using Scanning Tunneling Microscopy

Wed-14:00-Plen-3

Elisa Molinari
CNR Institute of Nanoscience S3 Modena, ITALY

Illuminating nanosystems at surfaces

Fri-10:10-Plen-6

Rasmita Raval
University of Liverpool, UNITED KINGDOM

Supramolecular and covalent assembly of molecules at surfaces: chirality, complexity and diversity

Wed-14:50-Plen-4

Gabor A. Somorjai
University of California at Berkeley, USA

Surface science approach to the molecular level integration of the principles in heterogeneous, homogeneous, and enzyme catalysis

Mon-9:30-Plen-1

Martin Wolf
Fritz Haber Institute in Berlin, GERMANY

Ultrafast dynamics of excited states and light induced processes at surfaces

Mon-10:40-Plen-2

KEYNOTE LECTURES

Falko P. Netzer
Institute of Physics, Karl-Franzens University Graz, Graz, AUSTRIA

2D oxide systems: strong versus weak substrate coupling

Wed-16:00-K-OXID HALL-C

Károly Osvay
ELI-ALPS, ELI-HU Nonprofit Ltd, Szeged, HUNGARY

ELI-ALPS highlights

Mon-11:30-K-ELI-ALPS CONGRESS HALL

Swetlana Schauermann
Institute of Physical Chemistry, Christian Albrechts University of Kiel, Kiel, GERMANY

Partial selective hydrogenation of acrolein over model Pd catalysts: a mechanistic IRAS and molecular beam study

Tue-16:40-K-CATL HALL-E

Hans-Peter Steinrück
Physikalische Chemie II, Universität Erlangen-Nürnberg, GERMANY

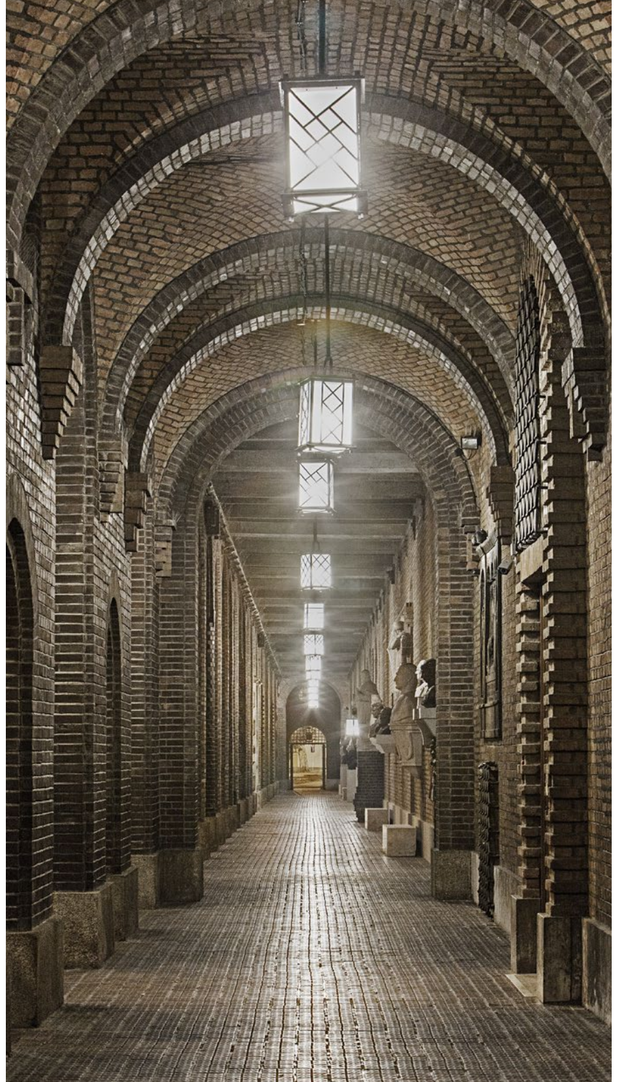
Chemical reactions in ionic liquids monitored through the gas (vacuum)/liquid interface

Wed-9:40-K-NAEX HALL-A

Masaki Tanemura
Nagoya Institute of Technology, Nagoya, JAPAN

Towards the low temperature growth of transfer free graphene

Wed-11:20-K-GRAP HALL-D



INVITED LECTURES

Micha Asscher
The Hebrew University of Jerusalem, ISRAEL

Buffer layer assisted deposition as a tool for basic catalysis and photo-induced surface science studies

Tue-16:00-I-PISC HALL-A

Kirsten von Bergmann
University of Hamburg, GERMANY

Manipulation of interface-induced Skyrmions studied with STM

Tue-10:40-I-MAGN HALL-D

László P. Biró
MTA Centre for Energy Research, Budapest, HUNGARY

2D materials: atomic scale lithography, defects and vertical heterostructures

Tue-15:00-I-EG2D HALL-E

Giovanni Comelli
University of Trieste, ITALY

Graphene growth on Ni surfaces

Thu-10:40-I-GRAP HALL-A

Lamberto Duò
Politecnico Milano, ITALY

Tailoring the properties of oxide/metal interfaces: from metallic to graphitic buffer layers

Tue-14:00-I-OXID HALL-C

Adam S. Foster
Aalto University, Aalto, FINLAND

Molecularly functionalized surfaces and interfaces

Wed-10:40-I-COMP HALL-E

Andrew Gellman
Carnegie Mellon University, Pittsburgh, USA

Alloy surface science spanning composition space

Wed-9:00-I-BIMS HALL-B

Luca Gregoratti
Elettra – Sincrotrone Trieste, ITALY

Bridging the material and pressure gaps in synchrotron based photo-electron *in-situ/operando* studies

Tue-9:40-I-NAEX HALL-C

Kersti Hermansson
University of Uppsala, SWEDEN

Multiscale modelling of reactive metal oxide interfaces

Thu-10:40-I-OXID HALL-C

Pavel Jelinek
Inst. of Physics of the Czech Academy of Science, Prague, CZECH REPUBLIC

High-resolution AFM/STM/IETS imaging and its applications

Tue-10:40-I-NAEX HALL-C

Angelika Kühnle
Johannes Gutenberg University Mainz, GERMANY

Generic nature of long-range repulsion in molecular self-assembly on a bulk insulator surface

Mon-15:00-I-ORGS HALL-B

Beata Lesiak-Orłowska
PAS – Institute of Physical Chemistry, Warsaw, POLAND

Surfaces of nanocarbon-based materials – chemical and structural analysis by electron spectroscopic methods

Wed-9:40-I-GRAP HALL-D

Rob Lindsay
The University of Manchester, UNITED KINGDOM

Using surface science to understand corrosion

Tue-9:00-I-CORR HALL-B

Hubertus Marbach
University of Erlangen-Nürnberg, GERMANY

Towards the controlled fabrication of well-defined nanostructures: a surface science approach to electron beam lithography

Thu-16:00-I-ELAM HALL-C

Vladimir Matolin
Charles University Prague, CZECH REPUBLIC

Single-atom Pt-cerium oxide catalysts

Tue-9:00-I-ENER HALL-A

Jill Miwa
Aarhus University, DENMARK

Electronic properties of ultra sharp dopant profiles in Silicon

Thu-9:00-I-SEMI HALL-D

Konstantin Neyman
University of Barcelona, SPAIN

Efficient computanional engineering of bimetallic nanocrystals

Tue-15:00-I-BIMS HALL-A

Marek Nowicki
University of Wrocław, POLAND

Electrochemical formation of nanostructures monitored by EC-STM and CV

Tue-14:00-I-ELCH HALL-D

Günther Rupprechter
Vienna University of Technology, AUSTRIA

Spectroscopy and microscopy of catalytic processes on well-defined surfaces: from UHV to operando conditions

Thu-9:40-I-CATH HALL-B

Janusz Sadowski
MAX IV Laboratory Lund University, Lund, SWEDEN

(Ga ,Mn) As as a canonical dilute ferromagnetic semiconductor – electronic structure, surface effects & magnetism in low dimensional structures

Thu-15:00-I-SEMI HALL-D

Svetlozar Surnev
University of Graz, AUSTRIA

2D ternary oxide layers: new paradigmas of structure and stoichiometry

Wed-9:00-I-OXID HALL-C

Sefik Suzer
Bilkent University, TURKEY

Investigation of ionic liquid interfaces using time- and position-resolved XPS

Mon-14:00-I-NAEX HALL-D

János Szanyi
PNNL Pacific Northwest National Laboratory, USA

The mechanism of CO_2 reduction over Pd/Al_2O_3: a combined SSITKA and operando FTIR investigation

Thu-15:00-I-CATH HALL-A

Amina Taleb-Ibrahimi
SOLEIL Synchrotron, Paris, FRANCE

Electronic structure of quantum materials and perspectives with ultra-high brilliant sources

Mon-15:00-I-BAND HALL-E

Michael Trenary
University of Illinois at Chicago, USA

Spectroscopic characterization of reaction pathways over a Pd-Cu(111) single atom alloy

Mon-14:00-I-CATL HALL-A

Elena Vedmedenko
University of Hamburg, GERMANY

Information and energy storage in magnetic skyrmions and helices: Role of oscillating Dzyaloshinskii-Moriya interactions

Thu-14:00-I-ENER HALL-B

Yeliang Wang
Chinese Academy of Sciences, Beijing, PR CHINA

Manipulation of individual atoms/molecules on surfaces of 2D atomic crystals: from Kondo effect to reversible single spin control

Mon-14:00-I-SAMA HALL-C

Martin Weinelt
Free University Berlin, GERMANY

Ultrafast magnetization dynamics and its signature in the transient electronic structure

Thu-9:00-I-LASE HALL-E

Sunday, August 27

	SZTE TIK – ATRIUM AREA
15:00	REGISTRATION (15:00 – 19:30)
18:00	WELCOME PARTY (18:00 – 19:30)
19:30	

Monday, August 28

	SZTE TIK – CONGRESS HALL
09:00	OPENING CEREMONY (09:00 – 09:30)
09:30	PLENARY 1 Somorjai G A
10:20	COFFEE BREAK 20' (10:20 – 10:40)
10:40	PLENARY 2 Wolf M
11:30	Osvay K
12:00	LUNCH (12:00 – 14:00)

	HALL-A	HALL-B	HALL-C	HALL-D	HALL-E
14:00	CATL	ORGS	SAMA	NAEX	BAND
14:20					
14:40					
15:00					
15:20					
15:40	COFFEE BREAK 20' 15:40 – 16:00				
16:00	Visit to ELI-ALPS 16:00 – 18:00				
17:00					
18:00					

Tuesday, August 29

	HALL-A	HALL-B	HALL-C	HALL-D	HALL-E
09:00	ENER	CORR	NAEX	MAGN	ORGS
09:20					
09:40					
10:00					
10:20	COFFEE BREAK 20' (10:20 – 10:40)				
10:40	EG2D	ORGS	NAEX	MAGN	ORGS
11:00					
11:20			OXID	ELCH	
11:40					
12:00	EXHIBITION, LUNCH (12:00 – 14:00)				
14:00	BIMS	ORGS	OXID	ELCH	EG2D
14:20					
14:40					
15:00					
15:20					
15:40	COFFEE BREAK 20' (15:40 – 16:00)				
16:00	PISC	ORGS	OXID	ELCH	CATL
16:20					
16:40				MOLA	
17:00					
17:20					
17:40					
18:00	POSTER SESSION 1 (18:00 – 19:30)				
19:30					

Wednesday, August 30

	HALL-A	HALL-B	HALL-C	HALL-D	HALL-E
09:00	ORGS	BIMS	OXID	GRAP	COMP
09:20					
09:40	NAEX				
10:00					
10:20	COFFEE BREAK 20' (10:20 – 10:40)				
10:40	ORGS	BAND	OXID	GRAP	COMP
11:00					
11:20					
11:40					
12:00	EXHIBITION, LUNCH (12:00 – 14:00)				
14:00	SZTE TIK – CONGRESS HALL				
	PLENARY 3 Kuk Y				
14:50	PLENARY 4 Raval R				
15:40	COFFEE BREAK 20' (15:40 – 16:00)				
16:00	ORGS	BAND	OXID	GRAP	SAMA
16:20					
16:40					
17:00	SOCIAL EVENTS (17:00 – 22:00)				
22:00					

Thursday, August 31

	HALL-A	HALL-B	HALL-C	HALL-D	HALL-E
09:00	MOLA	CATH	OXID	SEMI	LASE
09:20					
09:40				SAMA	
10:00				GRAP	
10:20	COFFEE BREAK 20' (10:20 – 10:40)				
10:40	GRAP	CATH	OXID	ORGS	LASE
11:00					
11:20				SEMI	ORGS
11:40					
12:00	EXHIBITION, LUNCH (12:00 – 14:00)				
14:00	GRAP	ENER	OXID	SEMI	ORGS
14:20	CATH				
14:40				SAMA	
15:00				SEMI	
15:20					
15:40	COFFEE BREAK 20' (15:40 – 16:00)				
16:00	CATH	ENER	ELAM	SEMI	ORGS
16:20	CATL				
16:40					
17:00	POSTER SESSION 2 (17:00 – 18:30)				
18:30					
19:30	CONFERENCE DINNER (19:30 – 22:00)				
22:00					

Friday, September 1

	SZTE TIK – CONGRESS HALL
09:20	PLENARY 5 Campbell C T
10:10	PLENARY 6 Molinari E
11:00	COFFEE BREAK 20' (11:00 – 11:20)
11:20	PLENARY 7 Behm R J
12:10 12:40	CLOSING CEREMONY (12:10 – 12:40)

BAND Band structure of solid surfaces
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PISC Photo-Induced Surface Chemistry
SAMA Structural analysis and manipulation on atomic scale
SEMI Semiconductor surfaces and ultrathin layers

Sunday, August 27 From 15:00 to 19:30

	SZTE TIK – ATRIUM AREA
15:00	**REGISTRATION** (15:00 – 19:30) This service is continously available during the conference office hours.
18:00 19:30	**WELCOME DRINK** (18:00 – 19:30)

Monday, August 28 From 09:00 to 12:00

	SZTE TIK – CONGRESS HALL
09:00	**OPENING CEREMONY** (09:00 – 09:30)
09:30	**PLENARY TALK** **Mon-9:30-Plen-1** – Surface science approach to the molecular level integration of the principles in heterogeneous, homogeneous, and enzyme catalysis **Somorjai G A** *University of California, Berkeley, USA*
10:20	**COFFEE BREAK 20'** (10:20 – 10:40)
10:40	**PLENARY TALK** **Mon-10:40-Plen-2** – Ultrafast dynamics of excited states and light induced processes at surfaces **Wolf M** *(Fritz Haber Institute of the Max Planck Society, Department of Physical Chemistry, Berlin, Germany*
11:30	**Mon-11:30-K-ELI-ALPS** – ELI-ALPS highlights **Osvay K** *ELI-ALPS, ELI-HU Nonprofit Ltd, Szeged, Hungary*
12:00	**LUNCH** (12:00 – 14:00)

Sunday, August 27
From 15:00 to 19:30

Monday, August 28
From 09:00 to 12:00

- **BAND** Band structure of solid surfaces
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Monday, August 28
From 14:00 to 18:00

	HALL-A	HALL-B	HALL-C
14:00	**Mon-14:00-I-CATL** – Spectroscopic characterization of reaction pathways over a Pd-Cu(111) Single-Atom Alloy **Trenary M** *University of Illinois at Chicago, Chicago, USA* Co-authors: Kruppe C M, Krooswyk J D	**Mon-14:00-O-ORGS** – Simultaneous high-resolution AFM/STM/IETS imaging of FePc on Au111 **Krejči O** *Institute of Physics of the CAS, Prague, Czech Republic* Co-authors: de la Torre B, Švec M, Krejčí O, Foti G, Vázquez H, Zbořil R, Jelínek P	**Mon-14:00-I-SAMA** – Manipulation of individual atoms/molecules on surfaces of 2D atomic crystals: From Kondo effect to reversible single spin control **Wang J** *Institute of Physics & University of Chinese Academy of Sciences, China*
14:20		**Mon-14:20-O-ORGS** – Adsorption of porphyrin-based dyes on TiO_2 surfaces: STM study **Such B** *Jagiellonian University, Krakow, Poland* Co-authors: Zając Ł, Olszowski P, Bodek Ł, Godlewski S, Jöhr R, Glatzel T, Meyer E, Szymonski M	
14:40	**Mon-14:40-O-CATL** – Oxidation reactions on Au surfaces: the role of water **Risse T** *Institute of Chemistry and Biochemistry, Free University Berlin, Berlin, Germany* Co-authors: Moreira R, Meyer E	**Mon-14:40-O-ORGS** – Control over self-assembly of phthalocyanine molecules via the electric field of an STM tip **Kocán P** *Charles University in Prague, Prague, Czech Republic* Co-authors: Matvija P, Sobotík P, Pieczyrak B, Jurczyszyn L, Rozbořil F, Ošťádal I	**Mon-14:40-O-SAMA** – Characterization of polycyclic conjugated hydrocarbons by means of NCAFM **Majzik Z** *IBM Research-Zurich, Rüschlikon, Switzerland* Co-authors: Pavliček N, Vilas-Varela M, Pérez D, Guitián E, Meyer G, Peña D, Gross L
15:00	**Mon-15:00-O-CATL** – Effect of gold on the adsorption properties of acetaldehyde on clean and h-BN covered Rh(111) surface **Farkas A P** *ELI-ALPS, ELI-HU Non-profit Ltd, Szeged, Hungary* Co-authors: Szitás Á, Vári G, Óvári L, Berkó A, Kiss J, Kónya Z	**Mon-15:00-I-ORGS** – Generic nature of long-range repulsion in molecular self-assembly on a bulk insulator surface **Kühnle A** *Institut für Physikalische Chemie, Johannes Gutenberg-Universität Main, Mainz, Germany* Co-authors: Neff J L	**Mon-15:00-O-SAMA** – Dipole-mediated single-molecule manipulation **Simpson G J** *University of Graz, Graz, Austria* Co-authors: Grill L, García-López V, Tour J
15:20	**Mon-15:20-O-CATL** – Real-time observation of diffusive processes by field emission microscopy **Barroo C** *Chemical Physics of Materials and Catalysis, Université libre de Bruxelles, CP243, Brussels, Belgium* Co-authors: de Decker Y, de Bocarmé T V		**Mon-15:20-O-SAMA** – Ferroelectricity at the atomic scale **Serrate D** *Instituto de Nanociencia de Aragón and Laboratorio de Microscopías Avanzadas, Universidad de Zaragoza, Zaragoza, Spain* Co-authors: Piantek M, Schubert S, Persson M, Hirjibehedin C F
15:40	**COFFEE BREAK 20'** 15:40 – 16:00		
16:00	**Visit to ELI-ALPS** 16:00 – 18:00 Participants should check in for this program 5 days before the visit by e-mail message.		
17:00	**Mon-17:00-O-ELI-ALPS** – The next generation of attosecond sources at ELI-ALPS **Kuehn S** *ELI-ALPS, ELI-HU Nonprofit Ltd, Szeged, Hungary* Co-authors: Csizmadia T, Farkas B, Füle M, Dumergue M, Kahaly S, Major B, Mondal S, Tzallas P, Antici P, Charalambidis D, Dombi P, Lepine F, Fülöp L, Mészáros G, Osvay K, Sansone G, Varju K		
18:00			

	HALL-D	HALL-E
14:00	**Mon-14:00-I-NAEX** – Investigation of ionic liquid interfaces using time- and position-resolved XPS **Suzer S** *Bilkent University, Chemistry Department, Ankara, Turkey*	**Mon-14:00-O-BAND** – Novel systems toward ambient pressure photoemission spectroscopy **Walczak L** *R&D Department, PREVAC Sp. z o.o., Rogow, Poland*
14:20		**Mon-14:20-O-BAND** – Theoretical study on spin states of photoelectrons emitted from spin-polarized surface states with a mirror symmetry **Kobayashi K** *Department of Physics, Ochanomizu University, Japan* Co-authors: Yaji K, Kuroda K, Komori F
14:40	**Mon-14:40-O-NAEX** – EnviroESCA – Routine surface chemical analysis under environmental conditions for biological samples **Simic-Milosevic V** *SPECS Surface Nano Analysis GmbH, Berlin, Germany* Co-authors: Bahr S, Thissen A, Dietrich P, Kjaervik M, Unger W	**Mon-14:40-O-BAND** – Spectroscopic investigation of surface opto-spin-current on Ir(111) covered by graphene **Arafune R** *International Center for Materials Nanoarchitectonics, National Institute for Materials Science, Tokyo, Japan* Co-authors: Nakazawa T, Takagi N, Kawai M
15:00	**Mon-15:00-O-NAEX** – Transmission X-ray diffraction for a real-time observation of thin-film growth **Tajiri H** *Japan Synchrotron Radiation Research Institute SPRING-8, Japan*	**Mon-15:00-I-BAND** – Electronic structure of quantum materials and perspectives with ultra-high brilliant sources **Taleb-Ibrahimi A** *UR1-CNRS/ Synchrotron SOLEIL, L'Orme des Merisiers, Saint-Aubin, Gif sur Yvette, France*
15:20	**Mon-15:20-O-NAEX** – Seeing is believing: atomic-scale imaging of catalysts under reaction conditions **Groot I M N** *Leiden Institute of Chemistry, Leiden University, the Netherlands*	
15:40		
16:00		
18:00		

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	HALL-A	HALL-B	HALL-C
09:00	**Tue-9:00-I-ENER** – Single-atom Pt-cerium oxide catalysts **Matolin V** *Charles University, Faculty of Mathematics and Physics, Prague, Czech Republic*	**Tue-9:00-I-CORR** – Using surface science to understand corrosion **Lindsay R** *Corrosion and Protection Centre, School of Materials, The University of Manchester, Manchester, UK* Co-authors: Acres M, Hussain H	**Tue-9:00-O-NAEX** – Sharpness-induced energy shifts of quantum well states in Pb islands on Cu(111) **Chan W-Y** *Institute of Physics, Academia Sinica, Nankang, Taipei, Taiwan, Republic of China* Co-authors: Lu S-M, Su W-B, Liao C-C, Hoffmann G, Tsai T-R, Chang C-S
09:20			**Tue-9:20-O-NAEX** – Silica-based catalyst supports are inert, are they not?: Striking differences in ethanol decomposition reaction originated from meso- and surface-fine-structure evidenced by small-angle X-ray scattering **Sápi A** *Department of Applied and Environmental Chemistry, University of Szeged, Szeged, Hungary* Co-authors: Dobó D G, Sebők D, Halasi Gy, Juhász K L, Szamosvölgyi Á, Pusztai P, Varga E, Kálomista I, Galbács G, Kukovecz Á, Kónya Z
09:40	**Tue-9:40-O-ENER** – Redox-mediated conversion of atomically dispersed platinum to sub-nanometer particles **Lykhach Y** *Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany* Co-authors: Figueroba A, Skála T, Duchoň T, Tsud N, Aulická M, Neitzel A, Veltruská K,Prince K C, Matolín V, Neyman K M, Libuda J	**Tue-9:40-O-CORR** – Corrosion studies of Lithium Hydride thin films **King M** *AWE, University of Surrey, Guildford, UK* Co-authors: Tonks J, Galloway E	**Tue-9:40-I-NAEX** – Novel solutions for near ambient pressure in-situ photoelectron spectro-microscopy **Gregoratti L** *Elettra – Sincrotrone Trieste, Basovizza-Trieste, Italy* Co-authors: Amati M, Sezen H, Al-Hada M
10:00	**Tue-10:00-O-ENER** – Graphite oxide-TiO_2 nanocomposite type photocatalyst for methanol photocatalytic reforming reaction **Tálas E** *Research Centre for Natural Sciences, Budapest, Hungary* Co-authors: Turcsányi Á, Majrik K, Pászti Z, Szabó T, Domján A, Mihály J, Tompos A, Dékány I	**Tue-10:00-O-CORR** – H adsorption studies on the Zr(0001) surface **Horakova K** *Institute of Physics, Prague, Czech Republic* Co-authors: Cichon S, Lancok J, Kratochvilova I, Chab V, Sajdl P, Floreano L, Verdini A, Rivera M D	
10:20	**COFFEE BREAK 20'** (10:20 – 10:40)		
10:40	**Tue-10:40-O-EG2D** – Symmetry reduction on metal supported Graphene by intercalation of Pb **Ayani C G** *IMDEA Nanociencia, Madrid, Spain* Co-authors: Navarro J J, Calleja F, Vázquez de Parga A L, Miranda R	**Tue-10:40-O-ORGS1** – On-surface transmetalation of Fe-Porphyrin network on Au(111) **Hötger D** *Max Planck Institute for Solid State Research, Stuttgart, Germany* Co-authors: Morchutt C, Alexa P, Grumelli D, Dreiser J, Stepanow S, Etzkorn M, Gutzler R, Kern K	**Tue-10:40-I-NAEX** – High-resolution AFM/STM/IETS imaging and its applications **Jelinek P** *Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic*
11:00	**Tue-11:00-O-EG2D** – Transition from Sulfided Molybdenum clusters to monolayer MoS_2 on Au(111) **Bana H V** *Physics Department, University of Trieste, Trieste, Italy* Co-authors: Travaglia E, Lacovig P, Bignardi L, Larciprete R, Baraldi A, Lizzit S	**Tue-11:00-O-ORGS1** – Structure and electronic properties of Zn-tetra-phenyl-porphyrins single- and multi-layer films grown on Fe (001)-p(1x1)O **Calloni A** *Department of Physics, Politecnico di Milano, Italy* Co-authors: Floreano L, Yivlialin R, Bussetti G, A. Goldoni A, Verdini A, Picone A, Brambilla A, Finazzi M, Duò L, Ciccacci F	

HALL-D	HALL-E	
Tue-9:00-O-MAGN – Spin reorientation in fcc Fe thin films with Mn overlayer **Nakashima S** *University of Tokyo, Kashiwa - Chiba, Japan* Co-authors: Miyamachi T, Takahashi Y, Komori F	**Tue-9:00-O-ORGS** – Hydrogen bond assisted self-assembly of switchable azobenzene derivatives on HOPG **Yadav K** *Department of Chemistry, Indian Institute of Technology, Kanpur, India* Co-authors: Halbritter T, Heckel A, Gopakumar T G	09:00
Tue-9:20-O-MAGN – Probing the exchange coupling through a Nc-functionalized STM **Verlhac B** *Université de Strasbourg, Strasbourg, France* Co-authors: Ormaza M, Bachellier, Garnier L, Limot L, Bocquet M-L, Lorente N	**Tue-9:20-O-ORGS** – Conductance of aromatic and antiaromatic molecules **Arasu N P** *Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic* Co-author: Vázquez H	09:20
Tue-9:40-O-MAGN – Giant hysteresis of single-molecule magnets adsorbed on a nonmagnetic insulator **Dreiser J** *Swiss Light Source, Paul Scherrer Institut, Villigen and Institute of Physics (IPHYS), Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland* Co-authors: Wäckerlin C, Donati F, Singha A, Baltic R, Rusponi S, Diller K, Patthey F, Pivetta M, Brune H	**Tue-9:40-O-ORGS** – Investigating superhydrogenated polycyclic aromatic hydrocarbons on graphite and their catalytic effect on interstellar H_2 formation **Simonsen F D S** *Department of Physics and Astronomy, Aarhus University, Aarhus, Denmark* Co-authors: Skov A W, Jensen P A, Hornekær L	09:40
Tue-10:00-O-MAGN – *Ab-initio* analysis of nitric oxide adsorption on an FeO_2 terminated (001) surface of $LaFeO_3$ **Kizaki H** *Department of Precision Science and Technology, Graduate School of Engineering, Osaka University, Japan* Co-authors: Morikawa Y	**Tue-10:00-O-ORGS** – Adsorption of anthracene and pentacene on coinage metal surfaces: coverage effects and the role of the van der Waals interactions **Morbec J M** *Faculty of Physics, University of Duisburg-Essen, Duisburg, Germany* Co-author: Kratzer P	10:00
		10:20
Tue-10:40-I-MAGN – Manipulation of interface-induced Skyrmions studied with STM **Bergmann K** *Department of Physics, University of Hamburg, Germany*	**Tue-10:40-O-ORGS2** – Electronic structure of Au-C60-Au single molecule junction fixed by current voltage characteristics and thermopower measurement **Isshiki Y** *Department of Chemistry, Tokyo Institute of technology, Tokyo, Japan* Co-authors: Komoto Y, Fujii S, Kiguchi M	10:40
	Tue-11:00-O-ORGS2 – Switchable charge states in multi-ferrocene molecules **Ondráček M** *Institute of Physics, Czech Academy of Sciences, Praha, Czech Republic* Co-authors: Berger J, Stetsovych O, Švec M, Stará I, Starý I, Jelínek P	11:00

Tuesday, August 29
From 09:00 to 11:00

BAND Band structure of solid surfaces
BIMS Bimetallic surfaces and alloy nanocrystals
CATH Catalytic 2D-model studies under high pressures
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PISC Photo-Induced Surface Chemistry
SAMA Structural analysis and manipulation on atomic scale
SEMI Semiconductor surfaces and ultrathin layers

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	HALL-A	HALL-B	HALL-C
11:20	**Tue-11:20-O-EG2D** – Surface reactivity of Au-Ag and Pt-Rh during deNO$_x$ reactions studied by field emission techniques **Jacobs L** *Chemical Physics of Materials and Catalysis, Université libre de Bruxelles, Brussels, Belgium* Co-authors: Barroo C, Gilis N, Lambeets S, Genty E, de Bocarmé T V	**Tue-11:20-O-ORGS1** – Chemical transformation and magnetic induced properties of a fluorinated tetraphenylporphyrin on Au(111) **Cirera B** *IMDEA Nanoscience, Madrid, Spain* Co-authors: Otero R, Gallego J M, Ecija D	**Tue-11:20-O-OXID** – Probing *in situ* the wetting at metal/oxide interface via plasmonics combined with photoemission **Messaykeh M** *Institut des NanoSciences de Paris, CNRS Sorbonne Université, Paris, France* Co-authors: Lazzari R, Jupille J, Cabailh G, Le T H L, Goniakowski J, Noguera C, Chenot S, Koltsov A, Mataigne J M
11:40		**Tue-11:40-O-ORGS1** – Molecular topology and metal/organic interfaces **Gottfried M J** *Fachbereich Chemie, Philipps-Universität Marburg, Germany* Co-authors: Klein B P, van der Heijden N, Krug C K, Schöniger M, Rosenow P, Schmid M, Tonner R, Swart I	**Tue-11:40-O-OXID** – Self-cleaning oxide surfaces as optical windows used in environmental surveillance **Akhtar N** *Department of Physics and Technology, University of Bergen, Norway* Co-authors: Holst B
12:00	**EXHIBITION, LUNCH** (12:00 – 14:00)		
14:00	**Tue-14:00-O-BIMS** – Size dependent spinodal decomposition in Cu-Ag nanoparticles **Erdélyi Z** *Department of Solid State Physics, University of Debrecen, Debrecen, Hungary* Co-authors: Gajdics B, Tomán J J, Radnóczi G, Bokányi E, Misják F	**Tue-14:00-O-ORGS** – On-surface synthesis of free-base corroles: A combined theoretical and experimental characterization **Rauls E** *Det teknisk-naturvitenskapelige Fakultet, Universitetet i Stavanger, Norway* Co-authors: Aldahhak H, Paszkiewicz M, Allegretti F, Duncan D A, Tebi S, Deimel P S, Aguilar P C, Zhang Y, Papageorgiou A C, Koch R, Barth J V, Schmidt W G, Müllegger S, Schöfberger W, Klappenberger F, Gerstmann U	**Tue-14:00-I-OXID** – Tailoring the properties of oxide/metal interfaces: From metallic to graphitic buffer layers **Duò L** *Dipartimento di Fisica, Politecnico di Milano, Milano, Italy*
14:20	**Tue-14:20-O-BIMS** – Site correlation of two-dimensional Cu-Ni Alloys on Ni(110) **Fukuda T** *Osaka City University, Osaka, Japan* Co-authors: Kishida I, Umezawa K	**Tue-14:20-O-ORGS** – Real-space visualization of the pair correlation function in a 2D molecular gas **Matvija P** *Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic* Co-authors: Rozbořil F, Sobotík P, Ošťádal I, Kocán P	

HALL-D	HALL-E	
Tue-11:20-O-ELCH – Ionic liquid thin films on the HOPG and VN surfaces: in-situ electrochemical XPS study **Bondarchuk A** *CIC energiGUNE, Miñano, Alava, Spain* Co-authors: Panhwer M, Rojo T, Mysyk R, Goikolea E	**Tue-11:20-O-ORGS2** – Single-molecule electronic study on nanographene **Fujii S** *Tokyo Institute of Technology, Tokyo, Japan* Co-authors: Kiguchi M	11:20
Tue-11:40-O-ELCH – One-pot electrochemical fabrication of reduced graphene oxide-metal/metal oxide nanocomposites for catalytic, sensor and energy storage applications **Demir Ü** *Department of Chemistry, Faculty of Sciences, Atatürk University, Erzurum, Turkey* Co-authors: Öznülüer T, Doğan H Ö, Urhan B K	**Tue-11:40-O-ORGS2** – Tracking on-surface chemical reactions for the bottom-up fabrication of graphene nanoribbons and open-shell polymers **Di Giovannantonio M** *EMPA – Swiss Federal Laboratories for Materials Science and Technology, Dübendorf, Switzerland* Co-authors: Deniz O, Urgel J I, Mishra S, Widmer R, Stolz S, Ruffieux P, Fasel R, Muntwiler M, Dumslaff T, Beser U, Narita A, Müllen K	11:40
		12:00
Tue-14:00-I-ELCH – Electrochemical formation of nanostructures monitored by EC-STM and CV **Nowicki M** *University of Wroclaw, Wroclaw, Poland* Co-authors: Madry B, Wandelt K	**Tue-14:00-O-EG2D** – Supramolecular assembly on top and underneath 2D materials: Can molecules interact across a graphene barrier? **Laker Z P L** *University of Warwick, Coventry, United Kingdom* Co-authors: Pinfold H, Xia X, Costantini G, Wilson N R	14:00
	Tue-14:20-O-EG2D – Controlling the growth of Bi(110) and Bi(111) films on an insulating substrate **Jankowski M** *ESRF-The European Synchrotron, Grenoble, France* Co-authors: Kamiński D, Vergeer K, Mirolo M, Carla F, Rijnders G, Bollmann T R J	14:20

Tuesday, August 29
From 11:20 to 14:20

- **BAND** Band structure of solid surfaces
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14:40	**Tue-14:40-O-BIMS** – Melting processes of 3d metal alloy nanoparticles deposited on surfaces **Getzlaff M** *Insitute of Applied Physics and Nanotechnology, University of Düsseldorf, Düsseldorf, Germany* Co-author: Bettermann H	**Tue-14:40-O-ORGS** – Self-assembly of tritopic molecules on surfaces: Structure and bonding from computer simulations **Szabelski P** *Maria Curie-Skłodowska University, Lublin, Poland* Co-authors: Rżysko W, Nieckarz D	**Tue-14:40-O-OXID** – From 2D to 3D alumina: interface templated growth of γ-Al_2O_3(111)-like films **Zabka W-D** *University of Zürich, Zürich, Switzerland* Co-authors: Leuenberger D, Mette G, Osterwalder J
15:00	**Tue-15:00-I-BIMS** – Efficient computational engineering of bimetallic nanocrystals **Neyman K M** *Departament de Ciència dels Materials i Química Física and Institut de Química Teòrica i Computacional, Universitat de Barcelona, Barcelona, Spain*	**Tue-15:00-O-ORGS** – Measuring the mechanical properties of molecular conformers **Jarvis S P** *Physics Department and Materials Science Institute, Lancaster University, Lancaster, UK* Co-authors: Taylor S, Baran J D, Thompson D, Saywell A, Mangham B, Champness N R, Larsson J A, Moriarty P	**Tue-15:00-O-OXID** – Band structure of one single layer of silica on Ru(0001) **Kremer G** *Institut Jean Lamour, Université de Lorraine/ CNRS, Vandoeuvre-les-Nancy, France* Co-authors: Fagot-Revurat Y, Sicot M, Kierren B, Malterre D, Moreau L, Lisi S, Coraux J, Pochet P, Dappe Y J, Le Fèvre P, Bertran F, Rault J
15:20		**Tue-15:20-O-ORGS** – Ductility of Thin Films Constituting Organic Light Emitting Diodes **Kobayashi T** *Department of Electronics & Control Engineering, National Institute of Technology, Okayama, Japan* Co-authors: Munkhtsog M, Okada M, Utsumi Y, Kanematsu H, Masuda T	**Tue-15:20-O-OXID** – The interaction of hydrogen, water and carbon monoxide with rhodium covered TiO_2(110) surfaces **Deák L** *MTA-SZTE Reaction Kinetics and Surface Chemistry Research Group, Szeged, Hungary* Co-authors: Szenti I, Kónya Z
15:40	**COFFEE BREAK 20'** (15:40 – 16:00)		
16:00	**Tue-16:00-I-PISC** – Buffer layer assisted deposition as a tool for basic catalysis and photo-induced surface science studies **Asscher M** *(Institute of Chemistry, The Hebrew University of Jerusalem, IL),* Co-authors: Zilberberg L, Mitlin S	**Tue-16:00-O-ORGS** – Site selective, reversible Diels-Alder reaction between polycyclic conjugated molecules and DB dimers on Ge(001):H **Godlewski S** *Jagiellonian University, Krakow, Poland* Co-authors: Kolmer M, Engelund M, Kawai H, Zuzak R, Garcia-Lekue A, Echavaren A, Peña D, Pérez D, Guitián E, Joachim C, Sanchez-Portal D, Saeys M, Szymonski M	**Tue-16:00-O-OXID** – Water adsorption at the zirconia surface on Pt_3Zr **Lackner P** *Institute of Applied Physics, TU Wien, Vienna, Austria* Co-authors: Hulva J, Choi J J, Köck E-M, Penner S, Klötzer B, Diebold U, Parkinson G, Schmid M
16:20		**Tue-16:20-O-ORGS** – Reversible CO_2 absorption with a superbasic ionic liquid [P66614] [Benzim] studied using near-ambient pressure X-ray photoelectron spectroscopy **Syres K L** *The Jeremiah Horrocks Institute, University of Central Lancashire, Preston, United Kindom* Co-authors: Henderson Z, Taylor R, Hardacre C, Thomas A G	**Tue-16:20-O-OXID** – Iron doping on cobalt oxide bilayers on Au(111): toward a model of synergistic catalytic effect in the oxygen evolution reaction **Sun Z** *Interdisciplinary Nanoscience Center, iNANO, Aarhus University, Aarhus, Denmark* Co-authors: Rodriguez-Fernandez J, Fester J, Lauritsen J V

HALL-D	HALL-E	
Tue-14:40-O-ELCH – *In-situ* spectro-electrochemical infrared investigations at atomically-defined Pt/Co_3O_4(111) model catalysts **Faisal F** *Department of Chemistry and Pharmacy, Friedrich-Alexander-University Erlangen-Nürnberg, Erlangen, Germany* Co-authors: Brummel O, Bertram M, Stumm C, Libuda J	**Tue-14:40-O-EG2D** – Fast surface X-ray diffraction: Gold epitaxy on MoS_2 **Resta A** *Synchrotron SOLEIL, L'Orme des Merisiers, Saint-Aubin, France* Co-authors: Narayanan-nair M, Garreau Y, Taleb A, Vlad A, Coati A	14:40
Tue-15:00-O-ELCH – X-ray photoelectron spectroscopy of ionic liquids – from half cell measurements to *in situ* elechtrochemical XPS studies **Foelske-Schmitz A** *TU-Wien, Vienna, Austria* Co-authors: Sauer M, Weingarth D, Kötz R	**Tue-15:00-I-EG2D** –SPM characterization and processing of 2D materials **Biró L P** *Institute of Technical Physics and Materials Science, MTA Centre for Energy Research, Budapest, Hungary* Co-authors: Nemes-Incze P, Magda G Z, Vancsó P, Dobrik G, Koós A A, Horváth Z E, Pető J, Márk G I, Lambin Ph, Hwang C, Tapasztó L	15:00
Tue-15:20-O-ELCH – Oxygen reduction reaction by pyridinic nitrogen-containing carbon electrocatalysts **Nakamura J** *Faculty of Pure and Applied Sciences, University of Tsukuba, Japan* Co-authors: Shibuya R, Shimoyama Y, Kondo T		15:20
		15:40
Tue-16:00-O-ELCH – *In situ* X-ray scattering studies of the formation of a Pb/Au(111) surface alloy in the electrochemical environment **Fogg J** *University of Liverpool, Liverpool, United Kingdom* Co-authors: Lucas C, Grunder Y, Vasiljevic N	**Tue-16:00-O-CATL** – CeO_{2-x}(111), a model catalyst for the HCl oxidation **Sack C** *Institute of Phycal Chemistry, Justus-Liebig-Universität Gießen, Gießen, Germany* Co-authors: Over H, Lustemberg P, Pirovano M V G	16:00
Tue-16:20-O-ELCH – *In-situ* x-ray scattering: nano-structured aluminum oxides **Harlow G S** *Division of Synchrotron Radiation Research, Lund University, Lund, Sweden* Co-authors: Vinogradov N A, Felici R, Carla F, Evertsson J, Rullik L, Linepé W, Lundgren E	**Tue-16:20-O-CATL** – Sulfur-Passivation of Graphene-Supported Platinum Nanocluster Arrays **Papp C** *Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany* Co-authors: Düll F, Späth F, Bauer U, Bachmann P, Steinhauer J, Steinrück H-P	16:20

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	HALL-A	HALL-B	HALL-C
16:40	**Tue-16:40-0-PISC** – Adsorption and photolysis of trimethyl acetate on TiO_2(B) (001) studied with synchrotron radiation core level photoelectron spectroscopy **Sandell A** *Dept. of Physics and Astronomy, Uppsala University, Uppsala, Sweden* Co-authors: Schaefer A, Ragazzon D, Farstad M H, Borg A	**Tue-16:40-0-ORGS** – Surface chemistry of coronene on a hydrogenated graphite surface **Jørgensen J H** *Aarhus University, Aarhus, Denmark* Co-authors: Skov A W, Hornekær L	**Tue-16:40-0-OXID** – Enhanced gas sensing properties of Cu-doped ZnO nanorods **Alev O** *Gebze Technical University, Gebze, Turkey* Co-authors: Torun I, Öztürk Z Z
17:00	**Tue-17:00-0-PISC** – On-surface photo- and thermal-generation of higher acenes **Urgel J I** *Swiss Federal Laboratories for Material Science and Technology, Dübendorf, Switzerland* Co-authors: Mishra S, Hayashi H, Di Giovannantonio M, Pignedoli C A, Deniz O, Ruffieux P, Yamada H, Fasel R	**Tue-17:00-0-ORGS** – Interlayer states induced by image potential states in naphthalene on graphene **Hamamoto Y** *Department of Precision Science and Technology, Graduate School of Engineering, Osaka University, Osaka, Japan* Co-authors: Wella S A, Sawada H, Kawaguchi N, Muttaqien F, Inagaki K, Hamada I, Morikawa Y	**Tue-17:00-0-OXID** – Low temperature CO oxidation catalyzed by iron oxide nanoparticles decorating internal part of mesoporous alumina bead **Han S W** *Sungkyunkwan University, Suwon, Republic of Korea* Co-authors: Kim I H, Kim H J, Cha B J, Park C H, Jeong J H, Woo T G, Seo H O, Kim Y D
17:20	**Tue-17:20-0-PISC** – Bragg diffraction of surface state electrons **Martín-Jiménez A** *IMDEA-Nanoscience C, Madrid, Spain* Co-authors: Écija D, Miranda R, Otero R	**Tue-17:20-0-ORGS** – Graphene functionalized with electron acceptor molecules **Harsh R** *Laboratoire Matériaux et Phénomènes Quantiques, UMR 7162 CNRS, Université Paris Diderot, Paris, France* Co-authors: Chacon C, Repain V,Girard Y, Bellec A, Rousset S, Joucken F, Lagoute J	**Tue-17:20-0-OXID** – Model oxide-supported enantioselective catalysts : interaction between TiO_2-supported Ni nanoparticles and a chiral modifier **Meriggio E** *Sorbonne Université, Paris, France* Co-authors: Méthivier C, Cabailh G, Carrier X, Humblot V
17:40		**Tue-17:40-0-ORGS** – Covalent and periodic functionalization of graphene/Ru(0001) **Navarro J J** *Universidad Autónoma de Madrid, Madrid, Spain* Co-authors: Calleja F, Miranda R, Pérez E M, Vázquez de Parga A L	**Tue-17:40-0-OXID** – Temperature-induced transformation of electrochemically formed hydrous RuO_2 layers over Ru(0001) model electrodes **Camuka H** *Institute of Physical Chemistry, Justus-Liebig-University of Gießen, Gießen, Germany* Co-authors: Krause P P, Leichtweiss T, Over H
18:00 19:30	**POSTER SESSION 1** (18:00 – 19:30)		

	HALL-D	HALL-E
16:40	**Tue-16:40-0-ELCH** – An *in-situ* study of Sn deposition into nano-porous ordered anodic aluminum oxide **Linpé W** *Lund University, Lund, Sweden* Co-authors: Harlow G S, Evertsson J, Hejral U, Lundgren E	**Tue-16:40-K-CATL** – Partial selective hydrogenation of acrolein over model Pd catalysts: a mechanistic IRAS and molecular beam study **Schauermann S** *Institute of Physical Chemistry, Christian Albrechts University of Kiel, Kiel, Germany* Co-authors: Dostert K-H, Brien C O, Freund H-J
17:00	**Tue-17:00-0-MOLA** – Peekaboo on the Nanoscale: Self-Assembled Monolayers of 1, 3, 5-tris(4-carboxyphenyl)benzene (H3BTB) on Silver **De La Morena R M O** *University of St Andrews, North Haugh, St Andrews, United Kingdom* Co-authors: Aitchison H, Lu H, Zharnikov M, Buck M	
17:20	**Tue-17:20-0-MOLA** – Self-Assembled Monolayers – the impact of the binding group on structure and stability **Cyganik P** *Smoluchowski Institute of Physics, Jagiellonian University, Kraków, Poland* Co-authors: Ossowski J, Żaba T, Krzykawska A	**Tue-17:20-0-CATL** – Observation of oxygen spillover between different {012} and {113} Rh facets during adsorption and hydrogenation of CO_2 **Lambeets S V** *Chemical Physics of Materials, CPMCT, Université libre de Bruxelles, Brussels, Belgium* Co-authors: Barroo C, Owczarek S, Genty E, Gilis N, Jacobs L, de Bocarmé T V
17:40	**Tue-17:40-0-MOLA** – Self-organization and electronic structure of thin and mono-molecular layer of Keggin-type Al_{13}-sulfate salt **Kovács I** *Technical Institute, University of Dunaújváros, Dunaújváros, Hungary* Co-authors: Stirling A, Schay Z	
18:00 19:30		

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	HALL-A	HALL-B	HALL-C
09:00	**Wed-9:00-O-ORGS** – Revealing phthalocyanine arrangements on Ag(100): From pure overlayer of CoPc and F_{16}CuPc to bimolecular heterostructures **Sabik A** *Institute of Experimental Physics, University of Wrocław, Wrocław, Poland* Co-authors: Mazur P, Gołek F, Antczak G	**Wed-9:00-I-BIMS** – Alloy surface science spanning composition space **Gellman A J** *Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, USA* Co-authors: Miller J B, Kondratyuk P, Payne M, Sen I	**Wed-9:00-I-OXID** – 2D ternary oxide layers: new paradigmas of structure and stoichiometry **Surnev S** *Institute of Physics, Karl-Franzens University Graz, Graz, Austria*
09:20	**Wed-9:20-O-ORGS** – Conclusively addressing the CoPc electronic structure: a joint gas-phase and solid-state photoemission and absorption spectroscopy study **Zhang T** *Department of Physics and Astronomy, Uppsala University, Uppsala, Sweden* Co-authors: Brumboiu I, Lüder J, Grazioli C, Lanzilotto V, Giangrisostomi E, Ovsyannikov R, Sassa Y, Bidermane I, Stupar M, de Simone M, Coreno M, Ressel B, Pedio M, Rudolf P, Brena B, Puglia C		
09:40	**Wed-9:40-K-NAEX** – Chemical reactions in ionic liquids monitored through the gas (vacuum)/liquid interface **Steinrück H P** *Physikalische Chemie II, Universität Erlangen-Nürnberg, Germany* Co-authors: Niedermaier I, Maier F	**Wed-9:40-O-BIMS** – Surface atomic arrangement and grain boundary diffusion in nanolayers **Vad K** *MTA Institute for Nuclear Research, Debrecen, Hungary* Co-authors: Takáts V, Csík A, Hakl J	**Wed-9:40-O-OXID** – Ultrathin Fe films on $SrTiO_3$(001): growth, interfacial interaction and electronic structure **Catrou P** *Université de Rennes 1, Institut de Physique de Rennes, UMR UR1-CNRS 6251, France* Co-authors: Delhaye G, Le Breton J-C, Tricot S, Turban P, Lépine B, Schieffer P
10:00		**Wed-10:00-O-BIMS** – Remarkable confinement effects on equilibrated adsorption, segregation and dimerization reaction predicted for alloy nanoparticles **Polak M** *Department of Chemistry, Ben-Gurion University of the Negev, Beer-Sheva, Israel* Co-author: Rubinovich L	**Wed-10:00-O-OXID** – Phonons of ultrathin Perovskite Oxide Films **Schumann F O** *Institute of Physics, Martin-Luther-Universität Halle-Wittenberg, Halle, Germany* Co-authors: Meinel K, Widdra W
10:20	**COFFEE BREAK 20'** (10:20 – 10:40)		

HALL-D	HALL-E	
Wed-9:00-O-GRAP – Decoupling epitaxial graphene from metals by potential-controlled electrochemical oxidation **Palacio I** *Institute of Materials Science of Madrid (ICMM-CSIC), Madrid, Spain* Co-authors: Otero-Irurueta G, Alonso C , Martínez J I, López-Elvira E, Muñoz-Ochando I, Salavagione H J, López M F, García-Hernández M, Méndez J, Ellis G J, Martín-Gago J A	**Wed-9:00-O-COMP** – Nuclear bound states of H_2 on a stepped metal surface **Arguelles E F** *Osaka University, Osaka, Japan* Co-authors: Kasai H, Fukutani K, Yajima A, Nakayama K, Yamashita S, Dino W A	09:00
Wed-9:20-O-GRAP – Mechanistic picture and kinetic analysis of surface-confined Ullmann polymerization **Contini G** *Istituto di Struttura della Materia, CNR, Roma, Italy* Co-authors: Di Giovannantonio M, Tomellini M, Lipton-Duffin J, Galeotti G, Ebrahimi M, Cossaro A, Verdini A, Kharche N, Meunier V, Vasseur G, Fagot-Revurat Y, Perepichka D F, Rosei F	**Wed-9:20-O-COMP** – Stability of vicinal crystal surfaces against step bunching: Atomistic scale model of unstable evaporation and growth **Krzyzewski F** *Institute of Physics, Warsaw, Poland* Co-authors: Popova H, Krasteva A, Załuska-Kotur M, Tonchev V	09:20
Wed-9:40-I-GRAP – Surfaces of nanocarbon-based materials – chemical and structural analysis by electron spectroscopic methods **Lesiak-Orłowska B** *Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw, Poland*	**Wed-9:40-O-COMP** – Many particle collective diffusion in an arbitrary one-dimensional potential landscape **Minkowski M** *Institute of Physics, Polish Academy of Sciences, Warsaw, Poland* Co-author: Załuska M A	09:40
	Wed-10:00-O-COMP –Calculation of molecular conductance 'on the fly' **Montes E** *Institute of Physics, Czech Academy of Sciences, Prague, Czech Republic* Co-author: Vázquez H	10:00
		10:20

Wednesday, August 30
From 09:00 to 10:20

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	HALL-A	HALL-B	HALL-C
10:40	**Wed-10:40-O-ORGS** – Tailoring the topology of low-dimensional organic nanostructures with surface templates **Zhu J** *University of Science and Technology of China, Hefei, P.R. China* Co-authors: Fan Q, Gottfried J M	**Wed-10:40-O-BAND** – Energy band alignment at the nanoscale **Deuermeier J** *i3N/CENIMAT, Department of Materials Science, Universidade NOVA de Lisboa and CEMOP/ UNINOVA, Caparica, Portugal* Co-authors: Fortunato E, Martins R, Klein A	**Wed-10:40-O-OXID** – Low dimensional electron system at titanates surfaces and related interfaces: Create and control **Radovic M** *Swiss Light Source, Paul Scherrer Institut, Switzerland*
11:00	**Wed-11:00-O-ORGS** – Enantiomeric separations of chiral pharmaceuticals using chiral tetrahexahedral Au nanoparticles **Shukla N** *Carnegie Mellon University, Department of Chemical Engineering, Pittsburgh, USA* Co-authors: Yang D, Zhao Y, Gellman A J	**Wed-11:00-O-BAND** – Scanning tunnelling spectroscopy of BiTeCl **Aquilar P C** *Universidad Autonoma de Madrid, Madrid, Spain* Co-authors: Norris A, Ayani C G, Chulkov E V, Miranda R, Vázquez de Parga A L	**Wed-11:00-O-OXID** – The formation mechanism of the p(2×3) reconstruction on Mo(112) surface **Ma T** *Shenyang Agricultural University, Shenyang, China* Co-author: Bao X
11:20	**Wed-11:20-O-ORGS** – Suppressed rotational oscillation by protonation of single triazatruxene molecules on Ag(111) **Bauer A** *Department of Physics, University Konstanz, Konstanz, Germany* Co-authors: Singer F, Erler P, Maier M, Winter R, Dedkov Y, Fonin M	**Wed-11:20-O-BAND** – Unoccupied band structure of Si nanoribbons on Ag(110) studied by IPE **Kleimeier N F** *Westfälische Wilhelms-Universität, Münster, Germany* Co-authors: Wenzel G	**Wed-11:20-O-OXID** – Structure of the Ag(111)-p(4x4)-O phase: Ag_6 model or multilayer oxide? **Andryushechkin B V** *A.M.Prokhorov General Physics Institute of Russian Academy of Sciences, Moscow, Russia* Co-authors: Shevlyuga V M, Pavlova T V, Zhidomirov G M, Eltsov K N
11:40	**Wed-11:40-O-ORGS** – Bonding of biomolecules to cerium oxide: histidine and adenine **Tsud N** *Charles University, Prague, Czech Republic* Co-authors: Bercha S, Ševčíková K,Acres R G, Vorokhta M, Khalakhan I, Dubau M, Matolínová I, Prince K C, Skála T, Matolín V	**Wed-11:40-O-BAND** – Valence band structures of the single crystal pentacene **Nakayama Y** *Tokyo University of Science, Tokyo, Japan* Co-authors: Hikasa M, Yoshida K, Murata M, Mizuno Y, Ideta S, Tanaka K, Ueno N, Ueba T, Kera S, Nakayama Y	**Wed-11:40-O-OXID** – Adsorption of a functionalized porphyrin on MgO(100) thin films: a high-resolution photoemission and X-ray absorption spectroscopy study **Tariq Q** *Physical Chemistry II, Friedrich Alexander University Erlangen-Nürnberg, Germany* Co-authors: Franke M, Wechsler D, Steinrück H-P, Lytken O
12:00	**EXHIBITION, LUNCH** (12:00 – 14:00)		

	SZTE TIK – CONGRESS HALL
14:00	**PLENARY TALK** **Wed-14:00-Plen-3** – Understanding bulk properties from surfaces of high temperature superconductors **Kuk Y** *Department of Physics and Astronomy, Seoul National University, Seoul, South Korea*
14:50 15:40	**PLENARY TALK** **Wed-14:50-Plen-4** – Supramolecular and covalent assembly of molecules at surfaces: chirality, complexity and diversity **Raval R** *The Surface Science Research Center, Department of Chemistry, University of Liverpool, United Kingdom*

HALL-D	HALL-E	
Wed-10:40-O-GRAP – Switching the reactivity of graphene on Ir(111) by hydrogen intercalation **Balog R** *Dept. of Physics and Astronomy, University of Aarhus, Aarhus C, Denmark* Co-authors: Kyhl L, Jorgensen J, Cassidy A, Cabo A G, Hornekær L	**Wed-10:40-I-COMP** – Molecularly functionalized surfaces and interfaces **Foster A S** *Department of Applied Physics, Aalto School of Science, Aalto, Finland*	10:40
Wed-11:00-O-GRAP – Reactivity of bi- and single layer graphene on Ir(111) towards hydrogen **Kyhl L** *Aarhus University, Aarhus, Denmark* Co-authors: Jørgensen J H, Cassidy A, Hornekær L, Balog R		11:00
Wed-11:20-K-GRAP – Towards the low temperature growth of transfer free graphene **Tanemura M** *Nagoya Institute of Technology, Nagoya, Japan* Co-authors: Vishwakarma R, Takahashi K, Araby M I, Wakamatsu Y, Kalita G, Rosmi M S, Yaakob Y, Kitazawa M	**Wed-11:20-O-COMP** – Revised Chen's derivative rule for efficient calculations of scanning tunneling microscopy **Palotás K** *Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia* Co-author: Mándi G	11:20
	Wed-11:40-O-COMP – Electron transfer between gold adatoms and the reduced CeO_2(111) surface: Lessons learned from static density functional theory **Paier J** *Institut für Chemie, Humboldt-Universität zu Berlin, Berlin, Germany* Co-author: Penschke C	11:40
		12:00

	14:00
	14:50 15:40

Wednesday, August 30
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	HALL-A	HALL-B	HALL-C
15:40	**COFFEE BREAK 20'** (15:40 – 16:00)		
16:00	**Wed-16:00-O-ORGS** – Ta_2O_5:PMMA composite dielectric layer for ambipolar organic field effect transistors **Canimkurbey B** *Department of Physics, Gebze Technical University, Kocaeli, Turkey* Co-authors: Çakırlar C, Büyükköse S, Parlak E A, Öztürk Z Z, Berber S	**Wed-16:00-O-BAND** – Electronic properties of thallium single crystal thin film **Sakamoto K** *Department of Materials Science, Chiba University, Chiba, Japan* Co-authors: Iwaoka M, Koga M, Yaoita Y, Zhang Y, Fujii J, Yoshida Y, Hasegawa Y, Ichinokura S, Akiyama R, Hasegawa S	**Wed-16:00-K-OXID** – Metal-supported 2D oxide systems: strong versus weak substrate coupling **Netzer FP** *Institute of Physics, Karl-Franzens University Graz, Graz, Austria* Co-authors: Surnev S
16:20	**Wed-16:20-O-ORGS** – Layer-resolved molecular organization of pentacene thin films for organic transistors by resonant soft X-ray reflectivity **Pasquali L** *Dipartimento di Ingegneria 'Enzo Ferrari', Università di Modena, Modena, Italy* Co-authors: Capelli R, Nardi M V, Toccoli T, Verucchi R, Dinelli F, Gelsomini C, Koshmak K, Giglia A, Nannarone S	**Wed-16:20-O-BAND** – Solving mysteries in pure bismuth by quantum confinement **Ito S** *Institute for Solid State Physics, University of Tokyo, Tokyo, Japan* Co-authors: Feng B, Arita M, Takayama A, Liu R-Y, Someya T, Chen W-C, Iimori T, Namatame H, Taniguchi M, Cheng C-M, Tang S-J, Komori F, Kobayashi K, Chiang T-C, Matsuda I	
16:40	**Wed-16:40-O-ORGS** – Chemical controlled electronic decoupling of three-dimensional molecules on surfaces investigated with LT-UHV-STM **Ebeling R** *Forschungszentrum Jülich GmbH, PGI-7, Jülich, Germany* Co-authors: Tsukamoto S, Caciuc V, Atodiresei N, Blügel S, Waser R, Karthäuser S	**Wed-16:40-O-BAND** – Soft X-ray spectroscopic study of electronic structure of Pd nanoparticles **Ogawa S** *Energy Engineering, Graduate School of Engineering, Nagoya University, Japan* Co-authors: Otsuki K, Yagi S	**Wed-16:40-O-OXID** – The influence of surface atomic structure on solid state electrochemistry: oxygen exchange on $SrTiO_3$(110) surfaces **Franceschi G** *Institute of Applied Physics, TU Wien, Wien, Austria* Co-authors: Riva M, Kubicek M, Hao X, Gerhold S, Franceschi G, Schmid M, Hutter H, Fleig J, Franchini C, Yildiz B, Diebold U
17:00 22.00	**SOCIAL EVENTS** (17:00 – 22:00)		

HALL-D	HALL-E	
		15:40
Wed-16:00-O-GRAP – Electronic interaction of organic molecules with nitrogen doped graphene **Lagoute J** *Université Paris Diderot, Paris, France* Co-authors: Pham V D, Joucken F, Repain V, Chacon C, Bellec A, Girard Y, Rousset S	**Wed-16:00-O-SAMA** – Shaping surface landscapes with molecules: rotationally induced diffraction of H_2 on LiF(001) under fast grazing incidence conditions **Del Cueto M** *Departamento de Química, Módulo 13, Universidad Autónoma de Madrid, Madrid, Spain* Co-authors: Muzas A S, Somers M F, Kroes G J, Díaz C, Martín F	16:00
Wed-16:20-O-GRAP – Synthesis and characterization of patterned graphene oxide **Cassidy A** *Department of Physics and Astronomy, University of Aarhus, Aarhus, Denmark* Co-authors: Angot T, Salomon E, Bisson R, Hornekær L	**Wed-16:20-O-SAMA** – X-ray absorption study of a barium titanate derived quasicrystal on Pt(111) **Bayat A** *Institut für Physik, Martin-Luther-Universität, Halle-Wittenberg, Halle, Germany* Co-authors: Förster S, Zollner E M, Dresler C, Widdra W, Huth P, Denecke R, Chasse A, Schindler K-M	16:20
	Wed-16:40-O-SAMA – Vicinal noble metal surfaces with densely kinked steps **Ortega J E** *International Physics Center DIPC, San Sebastian, Spain* Co-authors: Lobo-Checa J, Piquero-Zulaica I, El-Sayed A, Abd-el-Fattah Z, Corso M, Schiller F	16:40
		17:00 22.00

Wednesday, August 30
From 15:40 to 22:00

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	HALL-A	HALL-B	HALL-C
09:00	**Thu-9:00-O-MOLA** – Arginine on Cu(110): several adsorption configurations for a single molecule **Humblot V** *Université Pierre et Marie Curie, Paris, France* Co-authors: Totani R, Méthivier C, Pradier C M, Cruguel F H, Verdini A, Floreano L, Cossaro A	**Thu-9:00-O-CATH** – Hydrogen-induced crystal reshaping and edge vacancy formation in MoS_2 catalyst particles on Au(111) **Grønborg S S** *Aarhus University, Aarhus, Denmark* Co-authors: Salazar N, Bruix A, Rodriguez-Fernandez J, Thomsen S D, Hammer B, Lauritsen J V	**Thu-9:00-O-OXID** – Influence of the multifunctional $Ti_{0.7}M_{0.3}O_2$-C (M= W, Mo) composite supports on the electrochemical performance of Pt electrocatalysts **Pászti Z** *Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary* Co-authors: Vass Á, Borbáth I, Bakos I, Sajó I, Tompos A
09:20	**Thu-9:20-O-MOLA** – Molecular chessboard assemblies sorted by site-specific interactions of out-of-plane d-orbitals with a semi-metal template **Popova O** *Department of Physics, University of Basel, Basel, Switzerland* Co-authors: Fatayer S, Nijs T, Nowakowska S, Mousavi S F, Ahsan A, Jung T A, Wäckerlin C	**Thu-9:20-O-CATH** – Adsorption and reaction of CO_2 on graphene studied by ambient pressure XPS **Yamamoto S** *The University of Tokyo, Tokyo, Japan* Co-authors: Takeuchi K, Liu R-Y, Shiozawa Y, Koitaya T, Someya T, Tashima K, Fukidome H, Mukai K, Yoshimoto S, Suemitsu M, Yoshinobu J, Matsuda I	**Thu-9:20-O-OXID** – Imaging and manipulations of dissociated water on In_2O_3(111) **Wagner M** *(Institut für Angewandte Physik, TU Wien, Wien, Austria),* Co-authors: Setvín M, Seiler S, Boatner L A, Schmid M, Meyer B, Diebold U
09:40	**Thu-9:40-O-MOLA** – Multi-layered poly-functional microspheres for rapid multiplexed immunoassay **Rice D** *Bernal Institute, University of Limerick, Limerick, Ireland* Co-authors: Gleeson M, O'Dwyer K, Mouras R, Liu N, Soulimane T, Tofail S A M, Silien C	**Thu-9:40-I-CATH** – Spectroscopy and microscopy of catalytic processes on well-defined surfaces: from UHV to operando conditions **Rupprechter G** *Institute of Materials Chemistry, Technische Universität Wien, Vienna, Austria* Co-authors: Rameshan C, Föttinger K, Suchorski Y	**Thu-9:40-O-OXID** – TiO_2 rutile (011) exposed to liquid water **Balajka J** *Institute of Applied Physics, TU Wien, Austria* Co-authors: Aschauer U, Selloni A, Schmid M, Diebold U
10:00	**Thu-10:00-O-MOLA** – Ultrathin film polymorphs of ferrocene derivatives assisted by functional groups and solvents **Saha P** *Department of Chemistry, Indian Institute of Technology Kanpur, India* Co-authors: Vinithra G, Malik I H, Ramapanicker I R, Gopakumar T G		**Thu-10:00-O-OXID** – Interaction of water with anatase TiO_2(001)-1×4 **Beinik I** *Interdisciplinary Nanoscience Center, iNANO, Aarhus University, Aarhus, Denmark* Co-authors: Adamsen K C, Stig Koust S, Lauritsen J V, Wendt S
10:20	**COFFEE BREAK 20'** (10:20 – 10:40)		
10:40	**Thu-10:40-I-GRAP** – Graphene growth on Ni (111) **Comelli G** *Department of Physics, University of Trieste, Trieste, Italy*	**Thu-10:40-O-CATH** – *In-situ* study of the oxidation of Cu(100) by CO_2 **Hagman B** *Lund University, Lund, Sweden* Co-authors: Borbon A P, Schaefer A, Merte L, Shipilin M, Zhang C, Crumlin E, Grönbeck H, Lundgren E, Gustafson J	**Thu-10:40-I-OXID** – Multiscale modelling of reactive metal oxide interfaces **Hermansson K** *Department of Chemistry-Ångström, Uppsala University, Uppsala, Sweden*
11:00		**Thu-11:00-O-CATH** – Near ambient pressure photoelectron spectroscopy studies of CO oxidation on Co_3O_4 surfaces: electronic structure and mechanistic aspects of wet and dry CO oxidation **Jain R** *Catalysis Division, National Chemical Laboratory, Pune 411 008, India* Co-author: Gopinath C S	

HALL-D	HALL-E	
Thu-9:00-I-SEMI – Electronic properties of high density doping profiles in semiconductors **Miwa J A** *Department of Physics & Astronomy, Aarhus University, Aarhus, Denmark*	**Thu-9:00-I-LASE** – Ultrafast magnetization dynamics and its signature in the transient electronic structure **Weinelt M** *Fachbereich Physik, Freie Universität Berlin, Berlin, Germany*	09:00
		09:20
Thu-9:40-O-SAMA – Atomic resolution imaging and carrier type determination of Molybdenum disulfide by noncontact scanning nonlinear dielectric microscopy **Yamasue K** *Research Institute of Electrical Communication Tohoku University, Sendai, JP* Co-author: Cho Y	**Thu-9:40-O-LASE** – Circular dichroism in laser induced electron emission from nanohelix arrays **Nürenberg D** *Physikalisches Institut, Westfälische Wilhelms-Universität Münster, Germany* Co-authors: Mark A, Kettner M, Fischer P, Zacharias H	09:40
Thu-10:00-O-GRAP – Nitride layers grown on patterned graphene/SiC **Pécz B** *MTA CER Institute for Technical Physics and Materials Science, Budapest, Hungary* Co-authors: Kovács A, Yakimova R, Behmenburg H, Giesen C, Heuken M	**Thu-10:00-O-LASE** – Surface science perspectives at ELI Attosecond Light Pulse Source **Óvári L** *ELI-ALPS, ELI-HU Non-profit Ltd., Szeged, Hungary* Co-authors: Dombi P, Charalambidis D	10:00
		10:20
Thu-10:40-O-ORGS – Morphology and stability of thin para-hexaphenyl layer grown on atomically flat surfaces of TiO_2(110) **Belza W** *Marian Smoluchowski Institute of Physics, Jagiellonian University, Krakow, Poland* Co-authors: Szajna K, Wrana D, Cieślik K, Krok F	**Thu-10:40-O-LASE** – Optical control of Young's Type Interferometers for Ultrafast Electron Pulses **Yanagisawa H** *Max Plank Institute of Quantum Optics, Garching, Germany*	10:40
Thu-11:00-O-SEMI – Field-driven orientation of small polar molecules in the condensed phase **Park Y** *Department of Chemistry, Seoul National University, Seoul, South Korea* Co-authors: Kang Hani, Kang Heon	**Thu-11:00-O-ORGS** – Structural transformation and stabilization of metal-organic motifs induced by halogen doping **Xie L** *Tongji University, Shanghai, China* Co-authors: Zhang C, Ding Y, Xu W	11:00

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	HALL-A	HALL-B	HALL-C
11:20	**Thu-11:20-O-GRAP** – Opening a pseudogap, and the rich interplay of Dirac fermions with singularites, doping and assymetric potentials in graphene **Norris A** *Imdea Nanoscience, Universidad de Utonoma, Madrid, Spain* Co-authors: Calleja F, Navarro J J, Vázquez de Parga A L, Miranda R	**Thu-11:20-O-CATH** – Simultaneously 2D spatially resolved activity and surface of a Pd(100) single crystal during CO oxidation **Zhou J** *Division of Combustion Physics, Lund University, Lund, Sweden* Co-authors: Blomberg S, Gustafson J, Lundgren E, Zetterberg J	**Thu-11:20-O-OXID** – Adsorption of CO and water on magnetite Fe_3O_4 surfaces **Zaki E** *Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany* Co-authors: Mirabella F, Ivars-Barcelo F, Shaikhutdinov S, Freund H-J
11:40	**Thu-11:40-O-GRAP** – Density driven sodium 2D phase transformation on epitaxial graphene **Lisi S** *Institut NEEL CNRS/UGA UPR2940, 38042 Grenoble, France* Co-authors: Estelle M, Ana-Cristina G-H, Dung N V, Valerie G, Philippe D, Johann C	**Thu-11:40-O-CATH** – The misfit structure between the Pd(100) and PdO(101) under reaction conditions **Lundgren E** *Division of Synchrotron Radiation Research, Lund University, Lund, Sweden* Co-authors: Shipilin M, Stierle A, Merte L R, Gustafson J, Hejral U, Martin N M, Zhang C, Franz D, Kilic V	**Thu-11:40-O-OXID** – Atomic scale STM and nc-AFM study of the Hematite (012) surface **Jakub Z** *Institute of Applied Physics, TU-Wien, Vienna, Austria* Co-authors: Kraushofer F, Bichler M, Hulva J, Schmid M, Diebold U,Blaha P, Parkinson G S
12:00	**EXHIBITION, LUNCH** (12:00 – 14:00)		
14:00	**Thu-14:00-O-GRAP** – Graphene/doped graphene from adsorbed molecules **Zehra T** *Zernike Institute for advanced materials, University of Groningen, The Netherlands* Co-authors: Syari'ati A, van Dorp W, de Hosson J T M, Rudolf P	**Thu-14:00-I-ENER** – Information and energy storage in magnetic skyrmions and helices: Role of oscillating Dzyaloshinskii-Moriya interactions **Vedmedenko E** *University of Hamburg, Hamburg, Germany*	**Thu-14:00-O-OXID** – The interaction between cerium oxide and platinum studied by LEEM **Luches P** *Institute of Nanoscience, Consiglio Nazionale delle Ricerche, Modena, Italy* Co-authors: Gasperi G, Valeri S, Sauerbrey M, Falta J, Flege J I
14:20	**Thu-14:20-O-CATH** – Combining high energy X-ray diffraction techniques with laser-induced fluorescence in operando catalysis **Hejral U** *Division of Synchrotron Radiation Research, Lund University, Lund, Sweden* Co-authors: Gustafson J, Albertin S, Balmes O, Zhou J, Wiegmann T, Drnec J, Blomberg S, Shipilin M, Pfaff S, J. Zetterberg J, Lundgren E		**Thu-14:20-O-OXID** – Bulk hydroxylation and fast water splitting on highly reduced ceria **Johanek V** *Charles University in Prague, Prague, Czech Republic* Co-authors: Dvořák F, Mysliveček J, Tovt A, Skála T, Szabová L, Farnesi Camellone M, Fabris S
14:40	**Thu-14:40-O-CATH** – *In situ* structural studies and gas phase visualization of model catalysts at work **Blomberg S** *Division Synchrotron Radiation Research, Lund University, Sweden* Co-authors: Zetterberg J, Zhou J, Gustafson J, Lundgren E	**Thu-14:40-O-ENER** – Experimental valence band dispersion of $CH_3NH_3PbI_3$ hybrid organic-inorganic perovskite **Tejeda A** *Laboratoire de Physique des Solides, CNRS, Paris-Saclay, Orsay, France* Co-authors: Lee M, Barragán A, Nair M N, Jacques V, Le Bolloc'h D, Fertey P, Jemli K, Lédée F, Trippé-Allard G, Deleporte E, Taleb-Ibrahimi A	**Thu-14:40-O-OXID** – Surface stabilises ceria in unexpected stoichiometry **Olbrich R** *Fachbereich Physik, Universität Osnabrück, Osnabrück, Germany* Co-authors: Murgida G E, Ferrari V, Barth C, Llois A M, Reichling M, Ganduglia-Pirovano M V

HALL-D	HALL-E	
Thu-11:20-O-SEMI – Formation of highly-ordered molecular structures on ion beam modified TiO2(110) surface – the role of wetting layer stability **Szajna K** *Marian Smoluchowski Institute of Physics, Jagiellonian University, Krakow, Poland* Co-authors: Kratzer M, Bełza W, Wrana D, Jany B R, Teichert C, Krok F	**Thu-11:20-O-ORGS** – Supramolecular corrals on surfaces resulting from aromatic interactions of non-planar triazoles **Kolsbjerg E L** *Interdisciplinary Nanoscience Center (iNANO), Aarhus University, Aarhus, Denmark* Co-authors: Jethwa S J, Hammer B, Linderoth T R	11:20
	Thu-11:40-O-ORGS – Titanium Tetraisopropoxide Adsorption and Decomposition on Cu(111) **Petukhov M** *ICB, UMR 6303 CNRS-Université de Bourgogne Franche-Comté, Dijon, France* Co-authors: Birnal P, Bourgeois S, Domenichini B, Vantalon D, Lagarde P	11:40
		12:00
Thu-14:00-O-SEMI – Formation of stable hexagonal (hcp) gold nanostructures in the process of self-assembling on Ge(001) surface **Jany B R** *Marian Smoluchowski Institute of Physics Jagiellonian University, Krakow, Poland* Co-authors: Gauquelin N, Willhammar T, Nikiel M, van den Bos K H W, Janas A, Szajna K, Verbeeck J, Van Aert S, Van Tendeloo G, Krok F	**Thu-14:00-O-ORGS** – Co-adsorption of alanine and water on Ni{110} **Tsaousis P** *Department of Chemistry,University of Reading, Berkshire, United Kingdom* Co-authors: Cornish A, Nicklin R E, Watson D, Held G	14:00
Thu-14:20-O-SEMI – Correlation between fractal and wettability of rippled silicon surfaces under ion beam irradiation **Yadav R P** *Department of Physics, Motilal Nehru National Institute of Technology, Allahabad, India* Co-authors: Kumar M, Pandey S N, Mittal A K	**Thu-14:20-O-ORGS** – Energetics of adsorbed molecules and molecular fragments on Nickel (111) by microcalorimetry **Carey S J** *University of Washington, USA* Co-authors: Zhao W, Mao Z, Zhang W, Campbell C T	14:20
Thu-14:40-O-SAMA – Ion irradiation induced compound formation **Menyhárd M** *Institute for Technical Physics and Materials Science, MTA Centre for Energy Research, Budapest, Hungary* Co-authors: Battistig G, Gurban S, Rácz A, Sulyok A, Zolnai Z, Vertesy G, Németh A	**Thu-14:40-O-ORGS** – C60 adsorption on a two-dimensional oxide quasicrystal **Zollner E M** *Martin-Luther-Universität Halle-Wittenberg, Halle, Germany* Co-authors: Förster S, Hammer R, Meinel K, Widdra W	14:40

Thursday, August 31
From 11:20 to 14:40

- **BAND** Band structure of solid surfaces
- **BIMS** Bimetallic surfaces and alloy nanocrystals
- **CATH** Catalytic 2D-model studies under high pressures
- **CATL** Catalytic 2D-model studies at low pressures
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	HALL-A	HALL-B	HALL-C
15:00	**Thu-15:00-I-CATH** – The mechanism of CO_2 reduction over Pd/Al_2O_3: a combined steady state isotope transient kinetic analysis (SSITKA) and operando FTIR investigation **Szanyi J** *Institute for Integrated Catalysis Pacific Northwest National Laboratory Richland, USA* Co-authors: Wang X, Shi H	**Thu-15:00-O-ENER** – *In situ* investigation of degradation at metal halide perovskite surfaces by near ambient pressure X-ray photoelectron spectroscopy **Ke C-R** *Physics Astronomy and Photon Science Institute, University of Manchester, Manchester, UK* Co-authors: Walton A S, Lewis D J, Tedstone A A, O'Brien P, Thomas A G, Flavell W R	**Thu-15:00-O-OXID** – The adsorption sites of CO_2 on cerium oxide studied using quantitative TPD **Schweke D** *Nuclear Research Centre Negev, Beer-Sheva, Israel* Co-authors: Zalkind S, Atti S, Bloch J
15:20		**Thu-15:20-O-ENER** – Morphology Effect on Proton Dynamics in Nafion® 117 and Sulfonated Polyether Ether Ketone (SPEEK) **Diño W A** *Department of Applied Physics, Osaka University, Suita, Osaka, Japan* Co-authors: Leong J X, Ahmad A, Daud W R W, Kasai H	**Thu-15:20-O-OXID** – The structure of the $SnO_2(110)$-(4×1) surface **Merte R L** *Chalmers University of Technology, Gothenburg, Sweden* Co-authors: Jørgensen M S, Pussi K, Gustafson J, Shipilin M, Schaefer A, Zhang C, Rawle J, Thornton G, Lindsay R, Hammer B, Lundgren E
15:40	**COFFEE BREAK 20'** (15:40 – 16:00)		
16:00	**Thu-16:00-O-CATH** – Non-noble intermetallic compounds as selective butadiene-hydrogenation catalysts: $Al_{13}Fe_4$ vs $Al_{13}Co_4$ **Piccolo L** *Université Claude Bernard – Lyon 1, CNRS, Lyon, France* Co-authors: Gaudry E, Ledieu J, Fournée V, Kibis L	**Thu-16:00-O-ENER** – Stable hydrated protons on platinum surface **Kang H** *Department of Chemistry, Seoul National University, Seoul, Republic of Korea* Co-author: Kim Y	**Thu-16:00-I-ELAM** – Towards the controlled fabrication of well defined nanostructures: a surface science approach to electron beam lithography **Marbach H** *Lehrstuhl für Physikalische Chemie II, Friedrich-Alexander Universität Erlangen-Nürnberg, Erlangen, Germany*
16:20 16:40	**Thu-16:20-O-CATL** – Contrasting dynamics for aryl- and alkyl-halide surface-reaction at copper **Leung L** *Lash Miller Chemical Laboratories, Department of Chemistry, University of Toronto, Toronto, Ontario, Canada* Co-authors: Timm M J, Anggara K, Lim T Hu Z, Polanyi J C	**Thu-16:20-O-ENER** – Fabrication and investigation of porous gold nanoparticles passivated with TiO_2 layer **Juhász L** *Department of Solid State Physics, University of Debrecen, Debrecen, Hungary* Co-authors: Parditka B, Cserháti C, Shenouda S S, Erdélyi Z	
17:00 18:30	**POSTER SESSION 2** (17:00 – 18:30)		
19:30 22:00	**CONFERENCE DINNER** (19:30 – 22:00)		

HALL-D	HALL-E
Thu-15:00-I-SEMI – (Ga,Mn)As as a canonical dilute ferromagnetic semiconductor – electronic structure, surface effects & magnetism in low dimensional structures **Sadowski J** *Institute of Physics, Polish Academy of Sciences, Warszawa, Poland*	**Thu-15:00-O-ORGS** – Unveiling universal trends for the energy level alignment in organic/oxide interfaces **Martinez J I** *Institute of Materials Science of Madrid, ICMM-CSIC, Madrid, Spain* Co-authors: Rangan S, Ruggieri C, Bartynski R, Flores F, Ortega J
	Thu-15:20-O-ORGS – Epitaxial growth of organic crystal networks on ultra-thin hexagonal boron nitride **Kratzer M** *Institute of Physics, Montanuniversität Leoben, Leoben, Austria* Co-authors: Matković A, Genser J, Lüftner D, Gajić R, Puschnig P, Teichert C
Thu-16:00-O-SEMI – Electronic states induced by cesium on atomically rough and flat GaAs(001) surfaces **Zhuravlev A G** *Novosibirsk State University, Novosibirsk, Russia Institute of Semiconductor Physics, Novosibirsk, Russia* Co-author: Alperovich V L	**Thu-16:00-O-ORGS** – Intramolecular cyclization of o-quinone amines with a focus on dopamine-quinone: a density functional theory based study **Kishida R** *Department of Applied Physics, Osaka University, Osaka, Japan* Co-author: Kasai H
Thu-16:20-O-SEMI – Various organic adsorbates for Si(553)-Au surface functionalization **Suchkova S** *Leibniz-Institut für Analytische Wissenschaften, Interface Analytics Department, Berlin, Germany* Co-authors: Speiser E, Chandola S, Hogan C, Bechstedt F, Esser N	**Thu-16:20-O-ORGS** – Competition between hydrogen bonds and coordination bonds steered by the surface molecular coverage **Cai L** *Tongji University, Shanghai, China* Co-authors: Sun Q, Xu W

Thursday, August 31
From 15:00 to 22:00

BAND Band structure of solid surfaces
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	SZTE TIK – CONGRESS HALL	
09:20	PLENARY TALK	**Fri-9:20-Plen-5** – Adsorption calorimetry techniques on well-defined surfaces and their application in understanding catalysis, photovoltaics and atomic-layer deposition **Campbell C T** *Department of Chemistry, University of Washington, Seattle, USA*
10:10	PLENARY TALK	**Fri-10:10-Plen-6** – Illuminating nanosystems at surfaces **Molinari E** *CNR Institute of Nanoscience S3 Modena, ITALY*
11:00	**COFFEE BREAK 20'** (11:00 – 11:20)	
11:20	PLENARY TALK	**Fri-11:20-Plen-7** – Nanostructured metal surfaces – from surface science to electrochemistry / electrocatalysis **Behm R J** *Institute of Surface Chemistry and Catalysis, Ulm University, Ulm, Germany*
12:10 12:40	**CLOSING CEREMONY** (12:10 – 12:40)	

Friday, September 1
From 09:20 to 12:40

- **BAND** Band structure of solid surfaces
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POSTER SESSION 1 Tuesday, August 29 18:00 – 19:30

Tue-PS1-01 Interstitial impurity induced magnetism on lead oxide surface
Arguelles E F *Osaka University, Osaka, Japan*
Co-authors: Amino S, Aspera S, Nakanishi H, Kasai H, Dino W A

Tue-PS1-02 Hybrid SEM/AFM metrology for complex surface characterization
Basa P *Semilab Semiconductor Physics Laboratory Co. Ltd., Budapest, Hungary*
Co-authors: Hitzel F, Zhou F

Tue-PS1-03 Oxygen reduction on carbon supported Pt_xSn electrodes with optimized Pt/Sn surface composition prepared by controlled surface reactions
Pászti Z *Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest, Hungary*
Co-authors: Borbáth I, Bakos I, Sajó I, Tompos A

Tue-PS1-04 Nitrogen doping of titania nanomaterials using thermal and plasma activation
Buchholcz B *Department of Applied and Environmental Chemistry, University of Szeged, Szeged, Hungary*
Co-authors: Plank K, Mohai M, Kukovecz Á, Kiss J, Bertóti I, Kónya Z

Tue-PS1-05 Self-assembly of ordered graphene nanodot arrays
Camilli L *Center for Nanostructured Graphene, DTU Nanotech, Technical University of Denmark, Kongens Lyngby, Denmark*
Co-authors: Jørgensen J H, Balog R, Cassidy A, Hornekær L, Tersoff J, Sadowski J T, Stoot A, Bøggild P

Tue-PS1-06 Effect of growing conditions on surface modification of PbTe crystals caused by Ar^+ ion bombardment
Csik A *Institute for Nuclear Research, Hungarian Academy of Sciences (ATOMKI), Debrecen, Hungary*
Co-authors: Zayachuk D M, Slynko V E

Tue-PS1-07 Nano-spectroscopy of phonon-polariton modes in boron nitride nanostructures
Datz D *Institute for Solid State Physics and Optics, MTA Wigner Research Centre for Physics, Budapest, Hungary*
Co-authors: Németh G, Pekker Á, Walker K, Rance G, Khlobystov A, Kamarás K

Tue-PS1-08 Surface enrichment in gold/silver alloys: Study of the physicochemical influences using atom probe tomography
Jacobs L *Chemical Physics of Materials and Catalysis (CPMCT), Université libre de Bruxelles, Faculty of Sciences, Brussels, Belgium*
Co-authors: Jacobs L, Lambeets S V, Genty E, Barroo C, de Bocarmé T V

Tue-PS1-09 Synthesis, metalation and structures of tetrapyrroles at interfaces
Gottfried M J *Fachbereich Chemie, Philipps-Universität Marburg, Germany*
Co-authors: Zugermeier M, Chen M, Drescher H-J, Klein B P, Krug C K, Schmid M

Tue-PS1-10 Au-Pd nanoparticles and Au/Rh double layers on TiO_2(110)
Gubó R *ELI-ALPS, ELI-HU Nonprofit Ltd., Szeged, Hungary*
Co-authors: Yim C M, Allan M, Pang C L, Óvári L, Berkó A, Thornton G

Tue-PS1-11 Hydrogenation of CO_2 on Pt nanoparticles supported on NiO
Halasi G *MTA-SZTE Reaction Kinetics and Surface Chemistry Research Group, University of Szeged, Szeged, Hungary*
Co-authors: Sápi A, Dobó D, Baán K, Kiss J, Kónya Z

Tue-PS1-12 Charge transfer and orbital level alignment at inorganic/organic interfaces: the role of dielectric interlayers
Hurdax P *Institute of Physics, University of Graz, NAWI Graz, Graz, Austria*
Co-authors: Hollerer M, Lüftner D, Ules T, Soubatch S, Tautz F S, Koller G Puschnig P, Sterrer M, Ramsey M G

Tue-PS1-13 Evaluation of electronic structure of the single molecule junction based on current voltage characteristics and thermopower
Isshiki Y *Tokyo Institute of Technology, Tokyo, Japan*
Co-authors: Komoto Y, Fujii S, Kiguchi M

POSTER SESSION 1 Tuesday, August 29 18:00 – 19:30

Tue-PS1-14 The sol aging time impact on the structural, optical and electrical properties of ZnO thin films
Jannane T *Sultan Moulay Slimane University, Material Physics Laboratory, Beni Mellal, Morocco*
Co-authors: Manoua M, Liba A, Fezouan N

Tue-PS1-15 Morphology and optical properties of porous gold nanoparticles coated with alumina layer
Juhász L *Department of Solid State Physics, University of Debrecen, Debrecen, Hungary*
Co-authors: Parditka B, Shenouda S S, Kosinova A, Wang D, Baradács E, Schaaf P, Rabkin E, Cserháti C, Erdélyi Z

Tue-PS1-16 Photonic bandgap engineering and photo-induced emission in layered two-dimensional structures
Kahaly M U *ELI-ALPS, ELI-HU Nonprofit Ltd., Szeged, Hungary*
Co-authors: Madas S, Jilili J, Mishra S

Tue-PS1-17 Reaction pathways of adsorbed acetaldehyde on clean and modified Rh(111) surfaces
Kovacs I *University of Dunaújváros, Dunaújváros, Hungary*
Co-authors: Farkas A P, Szitás Á, Kónya Z, Kiss J, Solymosi F

Tue-PS1-18 Photo-switchable wettability and electric conductivity of self-assembled dithienylethene monolayers on Ag surface
Kumar S *Zernikhe institute for Advanced Materials, University of Groningen, The Netherlands*
Co-authors: Danowski W, Feringa B L, Chiechi R C, Rudolf P

Tue-PS1-19 Monolayer-to-thin-film transition in supramolecular assemblies on graphene
Laker Z P L *University of Warwick, Coventry, United Kingdom*
Co-authors: Marsden A J, De Luca O, Alves Perdigao L M, Costantini G, Wilson N R

Tue-PS1-20 Antiferromagnetic domains in epitaxial CoO ultra-thin layers grown on Pt(001)
Lamirand A D *Diamond Light Source, Chilton, Didcot, Oxfordshire, United Kingdom*
Co-authors: Maccherozzi F, Forrest T, Wilson A, Dhesi S S

Tue-PS1-21 Atomistic modeling of alkali metals (Li, Na, K) intercalation into graphite
Lenchuk O *Justus Liebig University Gießen, Institute of Physical Chemistry, Gießen, Germany*
Co-author: Mollenhauer D

Tue-PS1-22 Adsorption of CO and H_2O on Fe_3O_4 surfaces studied by density-functional theory
Li X *Institut für Chemie, Humboldt-Universität zu Berlin, Berlin, Germany*
Co-author: Paier J

Tue-PS1-23 Ellipsometric and XPS study of Zr and ZrO_2
Menyhárd M *Institute for Technical Physics and Materials Science CER MTA, Budapest, Hungary*
Co-authors: Petrik P, Sulyok A, Novotny T, Perez-Feró E, Kalas B, Agócs E, Lohner T, Hózer Z

Tue-PS1-24 Adsorption and dehydrogenation of napthalene on nickel(111)
Marks K M *Stockholm University, Stockholm, Sweden*
Co-authors: Ghadami M, Moud P H, Piskorz W, Kotarba A, Hansson T, Öström H, Göthelied M, Engvall K

Tue-PS1-25 Insight into surface-confined 2D polymerization of a 1,2-bis(4-bromophenyl)ethyne on Ag(110) surface
Mohebbi E *University of Padova, Padova, Italy*
Co-authors: Carlotto S, Fakhrabadi M, Sedona F, Sambi M, Casarin M

Tue-PS1-26 Formate decomposition dynamics on Cu(111): importance of CO_2 bending vibrational mode
Muttaqien F *Osaka University, Osaka, Japan*
Co-authors: Oshima H, Hamamoto Y, Inagaki K, Hamada I, Morikawa Y

POSTER SESSION 1 Tuesday, August 29 18:00 – 19:30

Tue-PS1-27 Sol derived alumina and silica supported Au-Ag bimetallic catalysts: structure and activity in aerobic selective oxidation of benzyl alcohol
Nagy G *MTA Centre for Energy Research, Budapest, Hungary*
Co-authors: Somodi F, Sáfrán G, Schay Z, T. Gál T, Beck A

Tue-PS1-28 Effect of cationic species on the oxygen reduction reaction on Pt(111) electrode
Nakamura M *Chiba University, Chiba, Japan*
Co-authors: Kumeda T, Hoshi N

Tue-PS1-29 First principles study on the interaction between hydrogen atoms and the graphene buffer layer grown on the SiC(0001) surface
Nara J *National Institute for Materials Science, Tokyo, Japan*
Co-authors: Yamasaki T, Ohno T

Tue-PS1-30 Regular and disordered surface vacancies on a ceria film surface
Olbrich R *Fachbereich Physik, Universität Osnabrück, Osnabrück, Germany*
Co-authors: Murgida G E, Ferrari V, Barth C, Llois A M, Reichling M, Ganduglia-Pirovano M V

Tue-PS1-31 Spin relaxation length for medium energy electrons in Pd and LiF ultrathin films
Pavlov A V *Institute of Physics, Nanotechnology and Telecommunications, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia*
Co-authors: Ustinov A B, Petrov V N

Tue-PS1-32 Surface fluorination by C60F18 molecules adsorption on copper (001)
Petukhov M *University of Burgundy/Franche-Comté, Dijon, France*
Co-authors: Oreshkin A, Muzychenko D, S. Oreshkin S, Bourgeois S, Bakhtizin R

Tue-PS1-33 Configuring electronic states in an atomically precise array of quantum boxes
Popova O *University of Basel, Basel, Switzerland*
Co-authors: Nowakowska S, Waeckerlin A, Piquero-Zulaica I, Nowakowski J, Kawai S, Waeckerlin C, Matena M, Nijs T, Fatayer S, Ahsan A, Mousavi S F, Ivas T, Meyer E, Stohr M, Ortega J E, Bjork J, Gade L H, Lobo-Checa J, Jung T A

Tue-PS1-34 Photon and electron induced chemistry of molecules embedded within amorphous solid water (ASW)
Ramakrishnan S *Department of Physical Chemistry, The Hebrew University of Jerusalem, Israel*
Co-author: Asscher M

Tue-PS1-35 Grafting unsaturated carbon groups on hydrogenated diamond under low-energy electron irradiation
Sala L A *Univ Paris-Sud, Orsay, France*
Co-authors: Amiaud L, Dablemont C, Lafosse A

Tue-PS1-36 Effect of electric field on proton transfer at acid-base interface
Shin S *Department of Chemistry, Seoul National University, Seoul, South Korea.*
Co-author: Kang H

Tue-PS1-37 STM and STS study of thin Ag films grown on the Ga/Si(111)- $\sqrt{3}\times\sqrt{3}$ surface
Starfelt S *Department of Engineering and Physics, Karlstad University, Karlstad, Sweden*
Co-authors: Zhang H M, Johansson L S O

Tue-PS1-38 Structural and Electronic modifications induced by reduction in cerium oxide nanoparticles
Cresi J S P *Dipartimento di Scienze Fisiche Informatiche e Matematiche, Università degli Studi di Modena e Reggio Emilia, Modena, Italy*
Co-authors: Spadaro M C, D'Addato S, Valeri S, Amidani L, Boscherini F, Bertoni G, Deiana D, Luches P

Tue-PS1-39 Enantioselective reactions on chirally-modified model surfaces: a new molecular beam/surface spectroscopy apparatus
Attia S *Fritz Haber Institute of the Max Planck Society, Berlin, Germany*
Co-authors: Spadafora E J, Freund H J, Schauermann S

POSTER SESSION 1 Tuesday, August 29 18:00 – 19:30

Tue-PS1-40 Indium coverage on Si(111)-$\sqrt{7}\times\sqrt{3}$-In surface
Suzuki T *Department of Electronics Engineering and Computer Science, Fukuoka University, Fukuoka, Japan*
Co-authors: Lawrence J, Walker M, Morbec J M, Blowey P,Yagyu K, Kratzer P, Costantini G

Tue-PS1-41 Adhesion model of graphene islands on metal substrates based on Moiré-patterns
Szendrő M *MTA Centre for Energy Research, Institute for Technical Physics and Materials Science, Budapest, Hungary*
Co-author: Süle P

Tue-PS1-42 Adsorption, polymerization and decomposition of acetaldehyde on clean and carbon-covered Rh(111) surfaces
Szitás A *University of Szeged, Szeged, Hungary*
Co-authors: Farkas A P, Kovács I, Kónya Z, Kiss J

Tue-PS1-43 Electron spectroscopic study of carbon fiber – polyacrylate composites
Tóth J *MTA-ATOMKI Institute for Nuclear Research, Debrecen, Hungary*
Co-authors: Károly T, Nagy I P

Tue-PS1-44 Interaction of Au, Rh and Au-Rh alloys with the hexagonal boron nitride monolayer studied on Rh(111)
Vari G *Department of Applied and Environmental Chemistry, University of Szeged, Szeged, Hungary*
Co-authors: Gubó R, Kiss J, Farkas A P, Óvári L, Berkó A, Kónya Z

Tue-PS1-45 Transmission surface diffraction for operando studies of heterogeneous interfaces
Wiegmann T *Institute of Experimental and Applied Physics, Kiel University, Kiel, Germany*
Co-authors: Reikowski F, Stettner J, Drnec J, Honkimäki V, Maroun F, Allongue P, Magnussen O M

Tue-PS1-46 Gold intercalation in Graphene/Ir(111)
Navarro J J *Instituto Madrileño de Estudios Avanzados en Nanociencia, Cantoblanco, Madrid, Spain*
Co-authors: Calleja F, Vázquez de Parga A L, Miranda R

Tue-PS1-47 Decomposition of methanol on vanadium nanoclusters supported by graphene grown on Ru(0001)
Wu Y C *Department of Physics, National Central University, Taoyuan, Taiwan*
Co-authors: Huang Y C, Luo M F

Tue-PS1-48 Spin-orbital entanglement and optical spin control in solid surfaces
Yaji K *Institute for Solid State Physics, The University of Tokyo, Tokyo, Japan*
Co-authors: Kuroda K, Kobayashi K, Komori F, Shin S

Tue-PS1-49 Orange up-conversion in TiO_2-ZnO composite ceramics fabricated by metal organic decomposition
Yamamoto S-I *Ryukoku University, Japan*
Co-author: Nonaka T

Tue-PS1-50 Comparison of multiwalled carbon nanotubes modified with silver and gold particles as surface modifiers of carbon paste electrode for hydrodynamic chronoamperometric determination of H_2O_2
Vajdle O *Department of Chemistry, Biochemistry and Environmental Protection, University of Novi Sad, Novi Sad, Serbia*
Co-authors: Guzsvány V, Gurdeljević M, Pusztai P, Madarász D, Nagy L, Kónya Z

Tue-PS1-51 Grazing incident excitations on aluminum and silicon surface
Sulyok A *Institute for Technical Physics and Materials Science, MTA Centre for Energy Research, Budapest, Hungary*
Co-author: Tőkési K

Tue-PS1-52 Paper-supported electrochemical analysis platform for ion and biosensing
Peltonen J *Laboratory of Physical Chemistry, Centre for Functional Materials, Åbo Akademi University, Turku, Finland*
Co-authors: Rosqvist E, Fogde A, Ihalainen P, Määttänen A, Sarfraz J

POSTER SESSION 2 Thursday, August 31 17:00 – 18:30

Thu-PS2-01 New instrumentation for spin-integrated and spin-resolved momentum microscopy – METIS and KREIOS
Simic-Milosevic V *SPECS Surface Nano Analysis GmbH, Berlin, Germany*
Co-authors: Wietstruk M, Thissen A, Schoenhense G, Oelsner A, Tusche C

Thu-PS2-02 Energy loss function of samarium derived from reflection electron energy loss spectroscopy
Tőkési K *ELI-ALPS, ELI-HU Non-profit Ltd., Szeged, Hungary*
Co-authors: Xu H, Sulyok A

Thu-PS2-03 $BaZrO_3$ inclusions in solution-derived $YBa_2Cu_3O_{7-d}$ epitaxial thin films studied by X-Ray photoelectron spectroscopy
Santoni A *FSN-TECFIS-MNF, ENEA C.R. Frascati, Frascati, Italy*
Co-authors: Rondino F, Armenio A A, Mancini A, Pinto V, Celentano G, Piperno L

Thu-PS2-04 X-ray photoemission studies of liquid model systems for Pt-Ga and Pd-Ga bimetallic dehydrogenation catalysts
Grabau M *Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*
Co-authors: Erhard J, Taccardi N, Krick Calderon S, Neiss C, Wasserscheid P, Görling A, Steinrück H-P, Papp C

Thu-PS2-05 Improvement in corrosion resistance of NiWP and NiWB films formed by electroless plating
Shibata M *University of Yamanashi*
Co-author: Miyazawa Y

Thu-PS2-06 Adsorption and thermal reaction of 1H-pyrazole on Cu(100)
Lin J L *Department of Chemistry, National Cheng Kung University, Taiwan*

Thu-PS2-07 Reforming of ethanol on Rh(111) surface and supported Rh nanoclusters
Hsia Y Y *Department of Physics, National Central University, Taoyuan, Taiwan*
Co-authors: Ansari A A, Lai Y L, Hsu Y J, Luo M F

Thu-PS2-08 Synthesis of Pd nanoparticles by solution plasma method
Otsuki K *Energy Engineering, Graduate School of Engineering, Nagoya University, Japan*
Co-authors: Ogawa S, Ikenaga E, Yagi S

Thu-PS2-09 XPS MultiQuant: multimodel XPS quantification software
Mohai M *Institute of Materials and Environmental Chemistry, MTA Research Centre for Natural Sciences, Budapest, Hungary*

Thu-PS2-10 Stochastic kinetic mean-field model – a new atomic scale simulation method
Gajdics B *Department of Solid State Physics, University of Debrecen, Debrecen, Hungary*
Co-authors: Erdélyi Z, Pasichny M, Bezpalchuk V, Tomán J J, Gusak A M

Thu-PS2-11 Reactivity of vanadium oxide monolayers on CeO_2(111) studied by density functional theory
Penschke C *Humboldt-Universität zu Berlin, Berlin, Germany*
Co-author: Paier J

Thu-PS2-12 Collision-induced enhancement of polyimide corrosion in sub-low Earth orbit (LEO) space environment
Tagawa M *Kobe University, Kobe, Japan*
Co-authors: Okura R, Fujimoto Y, Kita K, Yokota K

Thu-PS2-13 Surface degradation of fluoroethylenepropylene (FEP) films in sub-low earth orbit (LEO) environment; origin and mechanism
Yokota K *Kobe University, Kobe, Japan*
Co-authors: Fujimoto Y, Okura R, Kita K, Tagawa M

POSTER SESSION 2 Thursday, August 31 17:00 – 18:30

Thu-PS2-14 Fabrication and characterization of the substrateless GaN-on-Si LEDs with a metal can package
Tsai C L *Department of Electronic Engineering and Green Technology Research Center, Chang Gung University, Taoyuan, Taiwan*
Co-authors: Lu Y-C, Yu C-Y, Tu Y-C,

Thu-PS2-15 Thermally induced dewetting of three dimensional Cu islands on the Ag(111) surface
Jankowski M *ESRF, Grenoble, France*
Co-authors: Mirolo M, Kwieciński W, Hofhuis K, Birkhölzer Y, De Santis M, Wormeester H, Bailly A

Thu-PS2-16 Temperature effect on transport and charging of low-energy electrons interacting with amorphous solid water films
Sagi R *Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel*
Co-authors: Asscher M

Thu-PS2-17 Reversible interface formed on metal alloy oxide nanoparticles via lithiation
Rezvani S J *IOM CNR, Trieste, Italy*
Co-authors: Di Cicco A, Gunnella R, Nobili F, Passerini S, Pasquali L, Nannarone S

Thu-PS2-18 Electrostatic shielding versus sterical ligand stabilization: tunable nanocrystal stabilization mechanisms
Mohrhusen L *Institute of Chemistry Physical Chemistry, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany*
Co-authors: Osmić M, Kolny-Olesiak J, Al-Shamery K

Thu-PS2-19 Gap opening in graphene buffer layer induced by structural superperiodicity
Tejeda A *Synchrotron SOLEIL, Saint-Aubin, France*
Co-authors: Nair M N, Palacio I, Celis A, Zobelli A, Gloter A, Kubsky S, Turmaud J-P, Conrad M, Berger C, de Heer W, Conrad E H, Taleb-Ibrahimi A

Thu-PS2-20 In situ XPS study of Ni-catalyzed graphitization on nano-crystalline diamond surface
Romanyuk O *Institute of Physics, Prague, Czech Republic*
Co-authors: Varga M, Tulic S, Susi T, Waitz T, Skakalova V, Izak I, Jiricek P, Kromka A, Rezek B

Thu-PS2-21 Multi-wall carbon nanotubes grown by USP-CVD: study of the growth time ratio against its length
Luna López J A *Benemérita Universidad Autónoma de Puebla, Puebla, México*
Co-authors: Garzon-Roman A, Hernández-de la Luz A D, Rabanal Jimenez M E

Thu-PS2-22 Reduction and nitrogen implantation of graphene-oxide thin films in low pressure N-containing plasma
Bertóti I *Institute of Materials and Environmental Chemistry, MTA Research Centre for Natural Sciences, Budapest, Hungary*
Co-author: Mohai M

Thu-PS2-23 Plasmon-induced electron emission from a carbon nanotube under polarized laser: A real-time first-principles study
Uchida K *Tokyo University of Science, Tokyo, Japan*
Co-author: Watanabe K

Thu-PS2-24 Metastable skyrmionic spin structures with various topologies and their electron charge/spin transport properties
Palotás K *Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia*
Co-author: Mándi G

Thu-PS2-25 Investigation of oxide dispersion strengthened steel by photoelectron emission, Mössbauer spectroscopy, and X-ray diffraction
Pető G *Institute of Technical Physics and Materials Science, MTA Centre for Energy Research, Budapest, Hungary*
Co-authors: Dézsi I, Kiss L F, Horváth Z E, Oszetzky D, Nagy A, Molnár G, Balázsi K, Daróczi C S, Horváth A

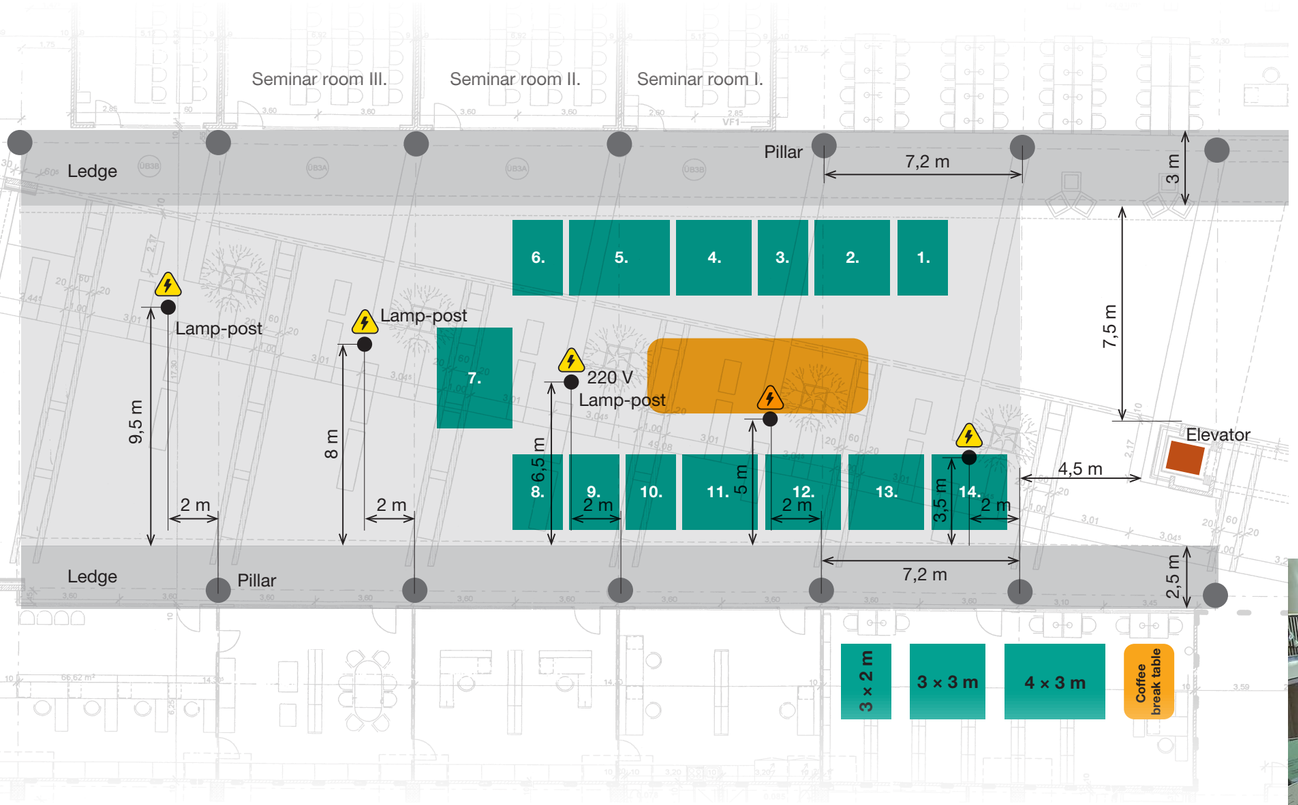
POSTER SESSION 2 Thursday, August 31 17:00 – 18:30

Thu-PS2-26	Iron phthalocyanine on ultrathin alumina template **Mohamed F** *Department of Physics, University of Trieste, Italy* Co-authors: Corva M, Feng Z, Seriani N, Peressi M, Vesselli E
Thu-PS2-27	Advancement of sample preparation for atom probe tomography: analysis of nanoporous and single-atom-alloy catalysts **Barroo C** *Chemical Physics of Materials and Catalysis, Université libre de Bruxelles, Brussels, Belgium* Co-authors: Akey A J, Bell D C
Thu-PS2-28	Photon-stimulated desorption processes of polymers by vacuum ultraviolet emissions from a laser-produced plasma **Kaku M** *University of Miyazaki, Miyazaki, Japan* Co-authors: Fuchigami K, Katto M, Yokotani A,Sasaki W
Thu-PS2-29	Chiral recognition using field ion and field emission microscopy **Lambeets S V** *Chemical Physics of Materials and Catalysis (CPMCT), Université libre de Bruxelles, Faculty of Sciences, Brussels, Belgium* Co-authors: Prakash J, Lambeets S V, Genty E, Barroo C, de Bocarmé T V
Thu-PS2-30	Surface mobility and nucleation of a molecular switch: tetraaniline on hematite **Mohtasebi A** *Department of Chemistry and Chemical Biology, McMaster University, Hamilton, Ontario, Canada* Co-author: Kruse P
Thu-PS2-31	Perfluoropentacene films on gold surfaces grown by supersonic molecular beam deposition **Yavuz A** *Middle East Technical University, Ankara, Turkey* Co-authors: Bracco G, Danisman M F
Thu-PS2-32	Formation of carbon nanostructures on metal deposits prepared by EBID **Szenti I** *University of Szeged, Szeged, Hungary* Co-authors: Tu F, Dorst M , Marbach H, Kiss J, Kónya Z
Thu-PS2-33	*In-situ* observation of water-induced reordering in ultrathin ionic liquid films **Henderson Z** *Jeremiah Horrocks Institute for Mathematics, Physics and Astronomy, University of Central Lancashire, Preston, Lancashire, United Kingdom* Co-authors: Walton A S, Thomas A G, Syres K L
Thu-PS2-34	Single-molecule conductance measurement of $Ru(bpy)_3$ derivative **Komoto Y** *Graduate School of Science, Tokyo Institute of Technology, Tokyo, Japan* Co-authors: Fujii S, Tamaki Y, Kiguchi M
Thu-PS2-35	Epitaxial growth of fullerene on the organic single crystal **Tsuruta R** *Department of Pure and Applied Chemistry, Tokyo University of Science, Tokyo, Japan* Co-authors: Mizuno Y, Togami Y, Yamanaka S, Mori T, Koganezawa T, Hosokai T, Nakayama Y
Thu-PS2-36	Investigation of carbendazim removal from water media by multiwalled carbon nanotubes and magnetite modified multiwalled carbon nanotubes **Tasič A** *Department of Chemistry, Biochemistry and Environmental Protection, University of Novi Sad, Novi Sad, Serbia* Co-authors: Guzsvány V, Bogosavljev M, Vajdle O, Nagy L, Kukovecz Á, Kónya Z
Thu-PS2-37	Surface spectroscopic analysis of transition metal doped TiO_2 nanoparticles **Lee H** *Department of Chemistry, Sookmyung Women's University, Seoul, Republic of Korea*
Thu-PS2-38	Messenger atom action spectroscopy of solid surfaces **Plucienik A** *Department of Chemical Physics, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany* Co-authors: Wu Z-F, Naschitzki M, Wachsmann W, Kuhlenbeck H, Hajo Freund H-J

POSTER SESSION 2 Thursday, August 31 17:00 – 18:30

Thu-PS2-39	Toluene total oxidation over NiO nanoparticles on mesoporous SiO_2: catalytic reaction at lower temperatures and repeated regeneration **Han S W** *Sungkyunkwan University, Suwon, Republic of Korea* Co-authors: Kim I H, Kim H J, Cha B J, Park C H, Jeong J H, Woo T G, Seo H O
Thu-PS2-40	Surface plasmons on aluminum particles and silicon nanocrystals in off- stoichiometric SiO_2 films used to increase the conversion efficiency in silicon solar cells **López J C** *CIDS-ICUAP, Benemérita Universidad Autónoma de Puebla, Puebla, México* Co-author: López J A L
Thu-PS2-41	Titanate nanotube supported plasmonic gold and rhodium particles for heterogeneous photocatalysis **László B** *University of Szeged, Szeged, Hungary* Co-authors: Baán K, Oszkó A, Erdőhelyi A, Kónya Z, Kiss J
Thu-PS2-42	First-principle study of angle-resolved secondary electron emission from atomic sheets **Ueda Y** *Department of Physics, Tokyo University of Science, Tokyo, Japan* Co-authors: Suzuki Y, Watanabe K
Thu-PS2-43	Oxide layer growth and hydrogen transfer processes at the surface of tungsten **El Kharbachi A** *CEA, SCBM, Laboratoire de Marquage par le Tritium, Gif-sur-Yvette, France* Co-authors: Marchetti L, Miserque F, Rousseau B
Thu-PS2-44	Influence of local surface potential on Kikuchi envelope and channeling of high-energy electrons on reconstructed surface **Shigeta Y** *Yokohama City University, Yokohama, Japan* Co-author: Hagiwara Y
Thu-PS2-45	Preformed cluster mobility as a probe for surface characterization **Lion J** *Laboratoire Aimé Cotton – CNRS, Université Paris-Sud, Orsay Cedex, France* Co-authors: Billaud P, Sarfati A, Kébaïli N
Thu-PS2-46	Observation of shell structure in mixed Ar/Kr clusters studied by electron energy loss spectroscopy **Hirayama T** *Department of Physics, Rikkyo University, Tokyo, Japan* Co-authors: Kita K, Nomura T, Tachibana T
Thu-PS2-47	Effect of conduction band non-parabolicity on the intersubband transitions in ZnO/Mg_xZn_{1-x0} Quantum Well Heterostructures **Chrafih Y** *Sustainable Development Laboratory, Department of Physics, Morocco* Co-authors: Lirst R K, Zorkani I
Thu-PS2-48	Particular behaviour of the GaAs wetting layer on AlGaAs substrate during droplet epitaxy **Nemcsics Á** *Institute for Microelectronics and Technology, Óbuda University, Budapest, Hungary* Co-authors: Tóth L, Erdélyi Z

PLAN OF THE EXHIBITION AREA IN THE ATRIUM AREA OF TIK



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STAND 1

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STAND 11

ELI-ALPS LASER RESEARCH CENTRE, SZEGED

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STAND 12

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STAND 13

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STAND 3

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STAND 10

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STAND 14

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STAND 4

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