

## Programma dei LAVORI di DIVISIONE - 16 settembre mattina

### Divisione CHIMICA ANALITICA (ANA)

#### ANA 04

09.30 - 09.50	ANA IL004	Cosima Damiana Calvano	<i>Allergenicity assessment of novel foods by identifying marker peptides using bioinformatics and LC-ESI-MS/MS</i>
09.50 - 10.10	ANA OR024	Danilo Corradini	<i>Separation and Detection of Charged and Neutral Biomolecules in Plants and Food Matrices by Capillary Zone Electrophoresis</i>
10.10 - 10.15	<b>break</b>		
10.15 - 10.30	ANA OR025	Antonella Cavazza	<i>Analytical approaches for safety assessment in the development of innovative packaging solutions</i>
10.30 - 10.45	ANA OR026	Tatiana Chenet	<i>Evaluation of the presence of plastics in two fish species of the Mediterranean Sea and potentially correlated harmful effects</i>
10.45 - 11.00	ANA OR027	Paola Arena	<i>A Holistic Approach to the Characterization of High-Value Generating Molecules from the Wastes of Tuna Fishery Industry</i>
11.00 - 11.15	ANA OR028	Federica Dal Bello	<i>Insects food for the future</i>
11.15 - 11.30	ANA OR029	Debora fabbri	<i>Integrated approach for the analysis of some pesticides in vegetables and food matrices fastidiosa</i>
11.30 - 11.45	ANA OR030	Paola Agata E. Donato	<i>Triacylglycerol Fingerprinting in Vegetable Oils by means of Subcritical Solvent Chromatography</i>
11.45 - 12.00	ANA OR031	Marco Iammarino	<i>Exploring the potentiality of capillary ion chromatography (CIC) as analytical technique for the determination of food additives</i>
12.00 - 12.15	ANA OR032	Fabio Salafia	<i>Use of ultra-high performance liquid chromatography to characterize non-volatile compounds in Italian beers</i>
12.15 - 12.30	ANA OR033	Emanuela Trovato	<i>Characterization of volatile and non volatile compounds in citrus beer to evaluate product quality for food frauds prevention.</i>

#### ANA 05

09.30 - 09.50	ANA KN004	Alessandra Biancolillo	<i>Variable selection with a focus on multi-way and multi-block data</i>
09.50 - 10.10	ANA KN005	Cristina Malegori	<i>Near infrared hyperspectral imaging combined with multivariate image analysis: potential and limitations for the identification of microplastics in aquatic samples</i>
10.10 - 10.15	<b>break</b>		
10.15 - 10.30	ANA OR034	Giacomo Baccolo	<i>Automate chemometric approach for peak identification and quantification in untargeted GC-MS data</i>

## 16 settembre - mattina

10.30 - 10.45	<b>ANA OR035</b>	<b>Denise Biagini</b>	<i>Oxylipin storm in COVID-19: a new perspective in classifying disease severity</i>
10.45 - 11.00	<b>ANA OR036</b>	<b>Francesca Di Donato</b>	<i>Authentication of donkey's milk by Near Infrared Spectroscopy coupled with chemometric classifiers</i>
11.00 - 11.15	<b>ANA OR037</b>	<b>Fabio Fornari</b>	<i>Connecting the dots between theory and practice: discovering new functional cocrystals through supervised pattern recognition</i>
11.15 - 11.30	<b>ANA OR038</b>	<b>Sabina Licen</b>	<i>SOMEnv: an R package for mining environmental monitoring datasets by Self-Organizing Map and k-means algorithms with a Graphical User Interface</i>
11.30 - 11.45	<b>ANA OR039</b>	<b>Lisa Rita Magnaghi</b>	<i>Optode &amp; Chemometrics: Milk Freshness at a Glance</i>
11.45 - 12.00	<b>ANA OR040</b>	<b>Elisa Robotti</b>	<i>Optimization of the process of anaerobic digestion of FORSU by experimental design techniques</i>
12.00 - 12.15	<b>ANA OR041</b>	<b>Giorgia Scitutto</b>	<i>A chemometric strategy to exploit the complementary information from a combined XRF-Vis-NIR hyperspectral imaging system</i>
12.15 - 12.30	<b>ANA OR042</b>	<b>Federica Turrini</b>	<i>'Specialty' or 'Gourmet' oils: a multivariate statistical approach for the rapid identification of their botanical species</i>

**ANA 06**

09.30 - 09.50	<b>ANA KN006</b>	<b>Serena Arnaboldi</b>	<i>Unconventional Electrochemical Approaches for the Direct Readout of Chiral Information</i>
09.50 - 10.10	<b>ANA KN007</b>	<b>Isacco Gualandi</b>	<i>Electrosynthesis of Layered Double Hydroxides for analytical applications</i>
10.10 - 10.15	<b>break</b>		
10.15 - 10.30	<b>ANA OR043</b>	<b>Riccarda Antiochia</b>	<i>Wearable electrochemical microneedles-based nanoporous gold sensor for real time catecholamine detection</i>
10.30 - 10.45	<b>ANA OR044</b>	<b>Paolo Inaudi</b>	<i>Solid state electrochemical behaviour and spin multiplicity in charge transfer co-crystals of DBTTF:F4TCNQ</i>
10.45 - 11.00	<b>ANA OR045</b>	<b>Andreas Lesch</b>	<i>Large-scale production of electroanalytical sensors by combined inkjet printing and light-induced synthesis of metal nanoparticles</i>
11.00 - 11.15	<b>ANA OR046</b>	<b>Antonella Miglione</b>	<i>Combined paper-based substrates for electrochemical detection of copper ions in serum</i>
11.15 - 11.30	<b>ANA OR047</b>	<b>Patrizia R. Mussini</b>	<i>Enantiomer discrimination in voltammetry in media of high structural order at the electrochemical interphase implemented with chirality</i>

16 settembre - mattina

11.30 - 11.45	<b>ANA OR048</b>	<b>Laura Pigani</b>	<i>Cannabinoids fast detection in real matrices: an electrochemical sensors' approach</i>
11.45 - 12.00	<b>ANA OR049</b>	<b>Angelo Tricase</b>	<i>Electrochemical Characterization of supramolecular structure in Self-Assembled Monolayers</i>
12.00 - 12.15	<b>ANA OR050</b>	<b>Martina Vizza</b>	<i>Specific ion effect in electrochemistry: the deposition of copper in the presence of different background electrolytes</i>

## Divisione CHIMICA FISICA (FIS)

### FIS 03

#### *Enerchem I*

09:30-10:00	<b>FIS KN003</b>	<b>Emanuela Gatto</b>	<i>Photocurrent Generation in Supramolecular Bio-Inspired Nanoarchitectures on Gold Surface</i>
10:00-10:15	<b>FIS OR025</b>	<b>Cristina Artini</b>	<i>A novel approach for the evaluation of the defect clusters content in doped ceria through in-situ high pressure x-ray diffraction</i>
10:15-10:30	<b>FIS OR026</b>	<b>Chiara Milanese</b>	<i>Super activated biochar for solid state hydrogen storage and supercapacitors preparation</i>
10:30-10:45	<b>FIS OR027</b>	<b>Emanuela Sartori</b>	<i>Emissive Layered Perovskite Nanocrystals</i>
10:45-11:00	<b>FIS OR028</b>	<b>Giovanni Di Liberto</b>	<i>Theoretical Description Semiconductors Interfaces: insights from DFT</i>
11:00-11.15	<b>break</b>		

#### *Enerchem II*

11:15-11.30	<b>FIS OR029</b>	<b>Vanira Trifiletti</b>	<i>Synthesis of bismuth-based hybrid perovskites for thermoelectrics</i>
11.30-11.45	<b>FIS OR033</b>	<b>Mariarosaria Tuccillo</b>	<i>Operando study of a cobalt free Li-rich layered oxide materials (LRLO) in a lithium cell</i>
11:45-12:00	<b>FIS OR031</b>	<b>Simone Sansoni</b>	<i>Laser ablation in solution for a more sustainable perovskite-based optoelectronics</i>
12:00-12:15	<b>FIS OR030</b>	<b>GianLuca Chiarello</b>	<i>Photothermocatalytic steam reforming of methanol for H<sub>2</sub> production</i>
12:15-12.30	<b>FIS OR032</b>	<b>Annalisa Polo (Vincitrice del Premio Semerano)</b>	<i>Effects of Mo<sup>6+</sup> doping on the performance of BiVO<sub>4</sub> photoanodes for solar water oxidation</i>

### FIS 04

#### *Physical Chemistry for Environment I*

09:30-10:00	<b>FIS KN004</b>	<b>Luigi Gentile</b>	<i>Ecofriendly Isolation of Cellulose from buckwheat chaff</i>
10:00-10:15	<b>FIS OR039</b>	<b>Vito Rizzi</b>	<i>From agricultural wastes to a resource: Kiwi Peels as recyclable adsorbent to remove emerging pollutants from water</i>

16 settembre - mattina

10:15-10.30	FIS OR035	Giuseppina Anna Corrente	<i>Hydrochemical study of the Turbolo basin: evaluation of the spatial and seasonal variation of surface water quality</i>
10:30-10.45	FIS OR036	Vanessa Miglio	<i>Silica Monolith for the Removal of Pollutants from Gas and Aqueous Phases</i>
10:45-11:00	FIS OR037	Gabriele Mulas	<i>Investigation of mechanochemically driven CO<sub>2</sub> conversion over Olivine powders</i>
11:00-11.15	<b>break</b>		

**Physical Chemistry for Environment II**

11:15-11.30	FIS OR038	Pier Luigi Gentili	<i>Establishing a link between Chemistry and Complexity Science to promote Sustainability</i>
11.30-11.45	FIS OR034	Sebastiano Campisi	<i>Tin-functionalized hydroxyapatite as an "ecofriendly bridge" joining water remediation and air protection processes</i>
11:45-12:00	FIS OR040	Paolino Caputo	<i>Use of Food Substances as chemical additives in the industrial field</i>
12:00_12:15	FIS OR041	Alessio Zuliani	<i>Environmentally friendly ZnO/Castor oil polyurethane composites for the efficient gas-phase adsorption of acetic acid</i>
12:15-12.30	FIS OR042	Antonio Tursi	<i>Synthesis and Enhanced Capture Properties of a New BioMOF@SWCNT-BP: Recovery of the Endangered Rare Earth-Elements from Aqueous Systems</i>

**FIS 05**

**Spectroscopic Applications I**

09:30-10:00	FIS KN005	Elena Groppo	<i>Revisiting the use of probe molecules in the characterization of heterogeneous olefin polymerization catalysts by IR spectroscopy</i>
10:00-10:15	FIS OR043	Giampaolo Marcolin	<i>Solvent-dependent Characterization of Fucoxanthin through 2D Electronic Spectroscopy Reveals New Details on the Intramolecular Charge Transfer State Dynamics</i>
10:15-10.30	FIS OR044	Alessandra Forni	<i>Multiple prompt and long-lived emissions from solid state purely organic materials</i>
10:30-10.45	FIS OR045	Rosachiara Antonia Salvino	<i>NMR in chiral partially ordered media: a tool for achieving conformational traits of small flexible enantiomers in solution</i>
10:45-11:00	FIS OR046	Nicola Peruffo	<i>Selective Switching of Multiple Plexcitons in Colloidal Materials: Directing the Energy Flow at the Nanoscale</i>

**Spectroscopic Applications II**

11:15-11.30	FIS OR047	Elisabetta Collini	<i>The effect of hydrogen bonds on the ultrafast relaxation dynamics of a BODIPY dimer</i>
11.30-11.45	FIS OR048	Francesca Martini	<i>Structure and dynamics of "cool" organic pigments by solid state NMR</i>

16 settembre - mattina

11:45-12:00	FIS OR049	Margherita Bolognesi	<i>Bidimensional black Phosphorus: surface functionalization, heterostructures with organic molecules, applications</i>
12:00_12:15	FIS OR050	Annamaria Panniello	<i>BODIPY-functionalized Quantum dots platform for high efficiency FRET processes</i>
12:30-12:45	FIS OR093	Eleonora Vottero	<i>C-H terminations in activated carbons and related catalysts:an Inelastic Neutron Scattering spectroscopy and DFT study</i>

## Divisione CHIMICA INDUSTRIALE (IND)

### IND 02

#### Sessione congiunta con Gruppo Interdivisionale Catalisi

09.30 - 9.40	IND OR012	Annalisa Sacchetti	<i>Bio-oils valorization by selective catalytic hydrogenation: a comparison between batch and continuous flow systems</i>
9.40 - 9.50	IND OR013	Alessandra Toso	<i>Pd/CeO<sub>2</sub> as Passive NO<sub>x</sub> Adsorbers: key properties and NO<sub>x</sub> adsorption mechanism</i>
9.50 - 10.00	IND OR014	Sebastiano Campisi	<i>A green route to the catalytic nitrous oxide decomposition by transition metal doped hydroxyapatites</i>
10.00 - 10.10	IND OR015	Luca Consentino	<i>Ce doped WO<sub>3</sub>-TiO<sub>2</sub> cordierite monoliths for Selective Catalytic Reduction of NO<sub>x</sub> by NH<sub>3</sub></i>
10.10 - 10.20	IND OR016	Roberto Fiorenza	<i>The solar photothermo-catalytic approach for the VOCs degradation and the subsequent CO<sub>2</sub> conversion</i>
10.20 - 10.30	IND OR017	Melissa Greta Galloni	<i>Cu, Fe, and CuFe exchanged hydroxyapatites as eco-friendly catalysts for NH<sub>3</sub>-SCR reaction</i>
10.30 - 10.45	<b>Discussion</b>		
10.45 - 11.00	<b>break</b>		
11.00 - 11.20	IND KN003	Pierdomenico Biasi	<i>From University to Industry: examples on how university-industry collaborations in catalysis can be effective and successful</i>
11.20 - 11.30	IND OR018	Fabiana Vento	<i>Photodegradation of Xenobiotics from Polluted Water Using a New PMMA-TiO<sub>2</sub> Based Nanocomposite</i>
11.30 - 11.40	IND OR019	Vincenzo Russo	<i>Heterogeneous photodegradation for the removal of ibuprofen from water</i>
11.40 - 11.50	IND OR020	Alessandro Allegri	<i>Aquivion® PFSA-based spray-freeze dried composite materials for the conversion of furfuryl alcohol to levulinates</i>
11.50 - 12.00	IND OR021	Somayeh Taghavi	<i>Biomass-derived levulinic acid hydrogenation to GVL using bifunctional biochar-based catalysts</i>
12.00 - 12.10	IND OR044	Giulia Zoppi	<i>Green hydrogen production from wastewater derived from lignin-rich hydrothermal liquefaction</i>
12.10 - 12.30	<b>Discussion</b>		

**IND 03**

09.30 - 9.50	<b>IND KN004</b>	<b>Michele Laus</b>	<i>Polymer brush technology: the true and the false in grafting to processes</i>
9.50 - 10.00	<b>IND OR023</b>	<b>Stefano Gazzotti</b>	<i>1,3-Dioxolan-4-Ones as powerful tool for the synthesis of functionalized PLA-based materials with tailored properties</i>
10.00 - 10.10	<b>IND OR024</b>	<b>Carla Calabrese</b>	<i>Hybrid organic-inorganic materials based on polydopamine-like chemistry</i>
10.10 - 10.20	<b>IND OR025</b>	<b>Alessandro Piovano</b>	<i><math>\beta</math>-ketoimine Cr complexes for the production of functional polyolefins: exploring the metal-ligand bond as a key point of the catalysts</i>
10.20 - 10.30	<b>IND OR026</b>	<b>Edoardo Podda</b>	<i>Self-Healing and Shape-Memory Hydrogels by Micellar Polymerization</i>
10.30 - 10.40	<b>IND OR027</b>	<b>Riccardo Chiarcos</b>	<i>Evidence of Preferential Grafting of Short Chains in Grafting To Reactions of Hydroxy-Terminated P(S-r-MMA) Copolymers</i>
10.40 - 10.55	<b>Discussion</b>		
10.55 - 11.10	<b>break</b>		
11.10 - 11.20	<b>IND OR028</b>	<b>Antonietta Cozzolino</b>	<i>Axially oriented guest induced crystallization in syndiotactic polystyrene unstretched fiber</i>
11.20 - 11.30	<b>IND OR029</b>	<b>Manohar Golla</b>	<i>Axially Oriented Co-crystalline Phases of Poly(2,6-dimethyl-1,4-phenylene)oxide and host-guest orientations</i>
11.30 - 11.40	<b>IND OR030</b>	<b>Camilla Parmeggiani</b>	<i>Liquid crystal elastomer based artificial muscles for cardiac repair</i>
11.40 - 11.50	<b>IND OR031</b>	<b>Daniele Martella</b>	<i>Cell instructive polymers based on liquid crystals</i>
11.50 - 12.00	<b>IND OR032</b>	<b>Nicole Mariotti</b>	<i>Bio-based and waste-derived polyurethanes for energy systems</i>
12.00 - 12.30	<b>Discussion</b>		

**Divisione CHIMICA ORGANICA (ORG)****ORG 05**

10.00 - 10.30	<b>ORG PZ005</b>	<b>Marco Lucarini</b>	<b><i>Premio alla ricerca Chimica Organica nei suoi Aspetti Metodologici</i></b> <i>Novel Spin-Labelled Mechanically Interlocked Molecules as Models for the Interpretation of Biradical EPR Spectra</i>
10.30 - 10.45	<b>ORG OR033</b>	<b>Fabio Buonsenso</b>	<i>Non-equilibrium dynamic chromatography: investigation of the reduction process of <math>\alpha</math>-lipoic acid promoted by dithiothreitol</i>
10.45 - 11.00	<b>ORG OR034</b>	<b>Marta Da Pian</b>	<i>Combined use of forensic science in sexual assault: a case report</i>

## 16 settembre - mattina

11.00 - 11.15	ORG OR035	Graziano Di Carmine	<i>Aldol Reaction between Benzaldehyde and Hydroxyacetone Promoted by Silica SBA-15 supported proline: Unraveling the Solvent Effect on the Catalyst Behavior Using NMR Relaxation</i>
11.15 - 11.30	ORG OR036	Elena Ermini	<i>New 1-6 self-immolative spacer for the release of thiols under nitroreductase activation</i>

**ORG 06**

10.30 - 10.45	ORG OR037	Germana Esposito	<i>Molecular Networking: a powerful tool to dereplication of natural products</i>
10.45 - 11.00	ORG OR038	Roberta Franzini	<i>Chromatographic and spectroscopic investigation of chiral aza-dibenzocyclooctynes and their analogues obtained by azido-click reaction.</i>
11.00 - 11.15	ORG OR039	Marco Galeotti	<i>Hydrogen Atom Transfer based aliphatic C-H bond oxidation of hydrocarbons bearing cyclopropyl moieties. The role of hyperconjugation.</i>
11.15 - 11.30	ORG OR040	Chiara Lambruschini	<i>Photoisomerization of ferulic acid derivatives</i>

**ORG 07**

10.30 - 10.45	ORG OR041	Francesca Ghirga	<i>Development of ArnT-mediated colistin resistance diterpene-based inhibitors</i>
10.45 - 11.00	ORG OR042	Laura Goracci	<i>Exploring PROTACs metabolism: a structure-activity relationship study</i>
11.00 - 11.15	ORG OR043	Concetta Imperatore	<i>Toward marine inspired multitarget drugs for diabetes mellitus and its complications: design and synthesis of novel dual Protein Tyrosine Phosphatase 1B and Aldose Reductase ligands</i>
11.15 - 11.30	ORG OR044	Marco Masi	<i>Phytotoxins produced by fungal pathogens of legume crops</i>

**Divisione CHIMICA DEI SISTEMI BIOLOGICI (CSB)****CSB 02**

09.30 - 10.00	CSB KN002	Paola Turano	<i>Bioinorganic chemistry of ferritin nanocages</i>
10.00 - 10.15	CSB OR006	Veronica Ghini	<i>NMR as a tool to monitor the individual response of immunotherapy</i>
10.15 - 10.30	CSB OR007	Luigi Russo	<i><math>\mu</math>-ms conformational dynamics control the formation of prion protein intermediate states involved in amyloid fibrils</i>
10.30 - 10.45	CSB OR008	Sabrina Elkhanoufi	<i>New, highly sensitive off/on EPR probes to monitor enzymatic activity</i>
10.45 - 11.00	CSB OR009	Alessia Distefano	<i>A MS and SPR coupled approach to fully characterize IDE activity modulation</i>

16 settembre - mattina

11.00 - 11.15	<b>Break</b>		
11.15 - 11.30	<b>CSB OR010</b>	<b>Alessandro D'Urso</b>	<i>The increased thermodynamic stability of miRNAs might be the reason of stronger repressive activity</i>
11.30 - 11.45	<b>CSB OR029</b>	<b>Anna Di Porzio</b>	<i>Identification of a short peptide that preferentially binds to the G-quadruplex structure in the c-MYC oncogene promoter</i>
11.45 - 12.00	<b>CSB OR012</b>	<b>Chiara Platella</b>	<i>Targeting cancer-related DNA G-quadruplex structures by naphthalene diimide ligands</i>
12.00 - 12.15	<b>CSB OR013</b>	<b>Alessandra Romanelli</b>	<i>Self-assembly of PNA-peptide conjugates</i>
12.15 - 12.45	<b>Discussione</b>		

**Divisione ELETTOCHIMICA (ELE)**

**ELE 04**

09.30 - 10.00	<b>ELE IL28</b>	<b>Sara Rebecconi</b>	<i>PEDOT doped with Sulphonated Polyarylethersulphones as electroactive material in electroanalytical applications</i>
10.00 - 10.15	<b>ELE IL29</b>	<b>Cecilia Wetzl</b>	<i>Graphene-based functional materials for electrochemical imaging</i>
10.15 - 10.30	<b>ELE IL30</b>	<b>Lorenzo Ripani</b>	<i>Microkinetic modeling for the electrochemical CO<sub>2</sub> reduction reaction in bicarbonate electrolyte</i>
10.30 - 10.45	<b>break</b>		
10.45 - 11.00	<b>ELE IL31</b>	<b>Riccardo Brandiele</b>	<i>Synthesis and characterization of materials for PEM-FC, based on Pt alloyed nanoparticles supported on next generation mesoporous carbon</i>
11.00 - 11.15	<b>ELE IL32</b>	<b>Annalisa Polo</b>	<i>Ternary Oxide Semiconductor Photoanodes for Solar Energy Conversion</i>
11.15 - 11.45	<b>ELE IL33</b>	<b>Laura Rotundo</b>	<i>Electroreduction of carbon dioxide by Re(I) and Mn(I) bipyridine complexes</i>

**Divisione CHIMICA PER LE TECNOLOGIE (TEC)**

**TEC 03**

9.30 - 9.40	<b>TEC OR025</b>	<b>Paola Di Matteo</b>	<i>Phenolic compounds in alcoholic and low-alcoholic beer by fast HPLC-PDA-MS/MS analysis: impact of malt composition, hops and dealcoholization process.</i>
9.40 - 9.50	<b>TEC OR026</b>	<b>Elhoussein M. F. M. H. Ahmed</b>	<i>Early-Detection of Xylella fastidiosa in Olive Trees by Hyperspectral Reflectance and Non-targeted Metabolomics</i>
9.50 - 10.00	<b>TEC OR027</b>	<b>Nazeeha Ayaz</b>	<i>Hydrophobin coated superfluorinated nanoparticles for 19F-MRI cell tracking</i>
10.00 - 10.10	<b>TEC OR028</b>	<b>Elena Dilonardo</b>	<i>S-PEEK membranes optimized for Vanadium Redox Flow Battery: the effects of sulphonation degree and filler content on operative conditions and set-up configurations</i>



## 16 settembre - mattina

10.10 - 10.20	<b>TEC OR029</b>	<b>Giuseppe Marci</b>	<i>Selective photocatalytic partial oxidation of aromatic alcohols to aldehydes in aqueous suspensions of C<sub>3</sub>N<sub>4</sub> obtained by polycondensation of melamine and cyanuric/barbituric acids</i>
10.20 - 10.40	<b>Discussion</b>		
10.40 - 10.50	<b>TEC OR030</b>	<b>Giancarlo Terraneo</b>	<i>Crystalline Molecular Rotors Assembled through Halogen Bonding</i>
10.50 - 11.00	<b>TEC OR031</b>	<b>Valentina Dichiarante</b>	<i>Multi-branched perfluoro-tert-butoxyl scaffolds for the functionalization of surfaces and nanomaterials</i>
11.00 - 11.10	<b>TEC OR032</b>	<b>Gabriella Munzi</b>	<i>A dinuclear Zn(II) Schiff-base complex as molecular tweezer: binding properties and sensing towards biogenic diamines</i>
11.10 - 11.20	<b>TEC OR033</b>	<b>Martina Lippi</b>	<i>Dynamic 1D Bispidine-based Coordination Polymers for Adsorption Applications</i>
11.20 - 11.30	<b>TEC OR034</b>	<b>Daniele Narzi</b>	<i>Mechanism of oxygen evolution and Mn<sub>4</sub>Ca cluster restoration in the natural water-oxidizing catalyst</i>
11.30 - 11.50	<b>Discussion</b>		