

2026 化學年會(CNM 2026) Daily Program

Saturday, March 7, 2026 社管大樓

開幕式暨頒獎典禮 Opening Ceremony & Award Ceremony

09:00-10:00 / B1 Floor, 國際會議廳 International Conference Hall

大會演講 I (Plenary Lecture I)

10:00-10:45 / B1 Floor, 國際會議廳 International Conference Hall

Chair:	詹益慈 Yi-Tsu Chan / 國立臺灣大學
10:00-10:45	Practical Synthesis of Valuable Amino Acids and Peptides for New Drug Discovery Keiji Maruoka / Kyoto University

大會演講 II (Plenary Lecture II) - 化學學術獎章暨中技社化學學術獎

11:00-11:45 / B1 Floor, 國際會議廳 International Conference Hall

Chair:	李位仁 Way-Zen Lee / 國立臺灣師範大學
11:00-11:45	Research Journey from Dinitrosyl Iron Complexes (DNICs) toward Electrocatalytic Water Splitting 廖文峯 Wen-Feng Liaw / 國立清華大學

國科會化學學門規劃說明 NSTC-Chemistry Information Session

11:45-12:00 / B1 Floor, 國際會議廳 International Conference Hall

女科學家午餐交流

Exchange Session for Women Scientists

本議程由社團法人台灣女科技人學會贊助

12:00-13:00 / 2nd Floor, SC229

Chair:	葉怡均 Yi-Chun Yeh / 國立臺灣師範大學
12:00-12:20	From Basic Science to Drug Discovery: A Personal Journey 伍素瑩 Su-Ying Wu / 國家衛生研究院
12:20-12:40	化學專業人才在製藥產業的機會 張俐巧 Li-Chiao Chang / 台灣神隆股份有限公司
12:40-13:00	綜合討論 (Discussion)

【台積電】技術應用暨徵才講座 TSMC Technical & Career Talk	
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12:00-12:50 / 1st Floor, SC121	
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12:00-12:40	陳世明 S. M. Chen / 台積電十五 B 廠 部經理
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12:40-12:50	陳昕哲 Sam / 台積電
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【新應材】企業簡介、研發產品介紹及公司福利說明與徵才 AEMC Company Overview, Products, and Career Talk	
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12:00-12:50 / 1st Floor, SC103	
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12:00-12:50	張哲瑋 / 新應材股份有限公司 副總 施春慈 / 新應材股份有限公司 人資資深處長
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分組 1 先進分子影像光譜技術之開發與應用 Advanced Molecular Imaging Spectroscopy: Development and Applications		
13:00-14:30 / 1 st Floor, SC120		
Chair:	范秀芳 Hsiu-Fang Fan / 國立中山大學	
O1-1	13:00-13:20	Circularly Polarized Luminescence via Quasi-Bound States in the Continuum in Chiral Silicon Metasurfaces 魏佑臣 Yu-Chen Wei / 國立清華大學
O1-2	13:20-13:40	Imaging and Manipulation of Phase-separated Lipid Bilayers by Scanning Near-field Optical Microscopy 陳祺 Chi Chen / 中央研究院
O1-3	13:40-14:00	Developing the Phantoms and Contrast Agents for Chemical Exchange Saturation Transfer Imaging 林群欽 Eugene C. Lin / 國立中正大學
O1-4	14:00-14:20	Plug and Play in Membrane Systems: A Novel Nanodisc-based Strategy for YetJ and D2R Reconstitution 林竣偉 Chun-Wei Lin / 國立清華大學
14:20-14:30		綜合討論 (Discussion)

分組 2 巨分子組裝精準調控&奈米生物界面 Precision Control of Macromolecular Assembly & Nano-Bio Interfaces		
13:00-14:30 / 1 st Floor, SC121		
Chairs:	詹迺立 Nei-Li Chan / 國立臺灣大學醫學院 黃郁棻 Yu-Fen Huang / 國立清華大學	
O2-1	13:00-13:20	Precision Control of Macromolecular Assembly in Human Transcription by the Mediator Kinase Module 陳星甫 Shin-Fu Chen / 長庚大學
O2-2	13:20-13:40	Molecular Mechanisms of Thiazide Diuretics: From Structural Biology to Precision Medicine 李建霖 Chien-Ling Lee / 國立臺灣大學醫學院
O2-3	13:40-14:00	Assembly-state Licensing of Biological Competence: From Endotoxin Nanovesicles to Protein Condensates 林淑宜 Shu-Yi Lin / 國家衛生研究院
O2-4	14:00-14:20	Structural Basis for Recruitment of the Peptidoglycan Endopeptidase MepS by the Lipoprotein NlpI 曾秀如 Shiou-Ru Tzeng / 國立臺灣大學醫學院
14:20-14:30		綜合討論 (Discussion)

分組 3 能源材料及光譜化學 Energy Materials and Spectrochemistry		
13:00-14:30 / 1 st Floor, SC103		
Chair:	王迪彥 Di-Yan Wang / 國立臺灣師範大學	
O3-1	13:00-13:20	Tailoring Sub-Nanometer Tungsten Oxide Clusters for Photocatalytic and Chromic Applications 高琨哲 Kun-Che Kao / 國立彰化師範大學
O3-2	13:20-13:40	Unraveling Charge Carrier Dynamics in Energy Materials by Time-Resolved Spectroscopy 蒲盈志 Ying-Chih Pu / 國立臺南大學
O3-3	13:40-14:00	Model Thiophene-Decorated Nickel Porphyrins for Tandem CO₂ Reduction 洪崧富 Sung-Fu Hung / 國立陽明交通大學
O3-4	14:00-14:20	Metal-metal Oxide Interface for CO₂ Hydrogenation: Synthesis and Quantitative Analysis of Active Phase 杜遠朋 Yuan-Peng Du / 國立中央大學
14:20-14:30	【永光綠色化學研究論文獎】 In Situ Identification of Spin Magnetic Effect on Oxygen Evolution Reaction Unveiled by X-ray Emission Spectroscopy 黃智盈 Chih-Ying Huang / 國立臺灣大學	

分組 4 孔洞&配位 Porous Materials & Coordination Chemistry		
13:00-14:30 / 1 st Floor, SC123		
Chair:	劉學儒 Hsueh-Ju Liu / 國立陽明交通大學	
O4-1	13:00-13:20	Exploring Metal Cluster Architectures in Magnetic/Luminescent Lanthanide Complexes 林柏亨 Po-Heng Lin / 國立中興大學
O4-2	13:20-13:40	Multiple Fluorescence Sensing and Dye Degradation Functions of Coordination Polymers 吳景雲 Jing-Yun Wu / 國立暨南國際大學
O4-3	13:40-14:00	Low-Coordinate Alkyl Complexes of Chromium 林峻毅 Chun-Yi Lin / 國立成功大學
O4-4	14:00-14:20	Power of Large Mesopores in Metal-organic Frameworks: Towards Electrochemical Energy Storage and Electrocatalysis 龔仲偉 Chung-Wei Kung / 國立成功大學
14:20-14:30	綜合討論 (Discussion)	

分組 5 台日韓理論計算研討會 I 【English Session】		
Trilateral Symposium on Theoretical and Computational Chemistry I		
13:00-14:30 / 2nd Floor, SC229		
Chair:	鄭原忠 Yuan-Chung Cheng / 國立臺灣大學	
O5-1	13:00-13:30	Importance and Unimportance of Anharmonicity in Vibronic Coupling with Excitation Energy Transfers in the LH2 Complex Young Min Rhee / KAIST
O5-2	13:30-14:00	Quantum Chemical Approaches to Magnetic Properties of Open-shell Systems Yasutaka Kitagawa / Osaka University
O5-3	14:00-14:30	Theoretical Investigations for the Enhancement of Photocatalytic Activity by Two-dimensional Heterostructures for Photocatalytic Water Splitting Reaction 葉丞豪 Chen-Hao Yeh / 逢甲大學

分組 6 The 6th CST- CSJ Joint Symposium I 【English Session】		
Precision Chemistry for a Sustainable Future: Carbon Neutrality, AI, and Healthcare		
13:00-14:40 / 2nd Floor, SC228		
Chair:	Mitsuo Sawamoto / Kyoto University	
O6-1	13:00-13:20	Asymmetric Organocatalysis for Sustainable Chemistry Keiji Maruoka / Kyoto University
O6-2	13:20-13:40	Optically Distinguishable Spin States of a Stable Organic Diradical Kenji Matsuda / Kyoto University
O6-3	13:40-14:00	Molecular Design of Diboron Emitters: Structural and Excited-state Control toward Ultralong Emission 吳典霖 Tien-Lin Wu / 國立清華大學
O6-4	14:00-14:20	Helical Organic Ligand Engineering for the Enhancement of Luminescence in Rare Earth Complexes Miki Hasegawa / Aoyama Gakuin University
O6-5	14:20-14:40	Coupling Crystallization Dynamics and Interfacial Charge Physics in Mixed Sn–Pb Perovskite Solar Cells 林玠廷 Chieh-Ting Lin / 國立中興大學

分組 7 同步輻射光源在軟物質與生物領域的應用 I Applications of Synchrotron Radiation Light Source in Soft Matter and Biology I		
13:00-14:30 / 1 st Floor, SC101		
13:00-13:05		Opening Remarks 魏德新 副主任
Chair:		施怡之 Orion Shih / 國家同步輻射研究中心
O7-1	13:05-13:25	Multifunctional Roles of an Intrinsically Disordered Tail in HMGB2 Autoinhibition, Substrate Selectivity, Conformational Plasticity, and Cooperative Nuclease Regulation 蕭育源 Yu-Yuan Hsiao / 國立陽明交通大學
O7-2	13:25-13:45	TPS 13A Biological Small-angle X-ray Scattering Beamline at the NSRRC 葉奕琪 Yi-Qi Yeh / 國家同步輻射研究中心
O7-3	13:45-14:05	Atomic and Interfacial Modulation of Dendritic Metal Catalysts for High-Efficiency Electrocatalysis 賴英煌 Ying-Huang Lai / 東海大學
O7-4	14:05-14:25	Synchrotron-Based Infrared Microspectroscopy in Biomedical Diagnostics 李耀昌 Yao-Chang Lee / 國家同步輻射研究中心
14:25-14:30		綜合討論 (Discussion)

分組 8 綠色永續化學 x 永續發展目標的實踐【綠色化學論壇】 Green Sustainable Chemistry x The Practice of Sustainable Development Goals		
13:00-14:30 / 2 nd Floor, SC226		
Chair:		凌永健 Yung-Chien Ling / 國立清華大學
O8-1	13:00-13:10	綠色永續化學的實踐：從實驗室到永續發展目標 陳銘賜 Ming-Tsz Chen / 靜宜大學
O8-2	13:10-13:20	Green Sample Preparation Approaches for Trace Contaminant Determination in Environmental and Biological Samples 陳鑫昌 Hsin-Chang Chen / 國立嘉義大學
O8-3	13:20-13:30	Low-carbon and Circular Water Treatment for Sustainable Net-zero Carbon Emission 張婷婷 Ting-Ting Chang / 工業技術研究院
O8-4	13:30-13:40	Transforming Chemistry into Sustainable Solutions: A GC-SC-SDG Framework for Education and Practice 楊悠娟 Yu-Chuan Yang / 國立東華大學
O8-5	13:40-13:50	Greener Analytics for Public Health Intelligence: Wastewater-Based Monitoring of Drugs and Emerging Psychoactive Substances 陳珮珊 Pai-Shan Chen / 國立臺灣大學醫學院
O8-6	13:50-14:00	興大附中在綠色化學與永續發展的耕耘與精進 陸原 Lu Yuan & 游宗憲 Yu Tsung Hsien / 國立中興大學附屬高級中學
14:00-14:30		綜合討論 (Discussion)

分組 9 普化該教什麼?【教育論壇】		
What Should Be Taught in General Chemistry?		
本教育論壇由台明將企業股份有限公司臺灣玻璃館贊助		
13:00-14:30 / 2nd Floor, SC227		
Chair:		張一知 I-Jy Chang / 國立臺灣師範大學
O9-1	13:00-13:15	那些普通化學教我的事 Lessons from General Chemistry 林哲仁 Che-Jen Lin / 國立清華大學
O9-2	13:15-13:30	普化該教什麼? What Should Be Taught in General Chemistry? 蔡蘊明 Yeun-Min Tsai / 國立臺灣大學
O9-3	13:30-13:45	從知識學習到能力奠基：談新世代的普化教學核心架構 于淑君 Joyce Shuchun Yu / 國立中正大學
O9-4	13:45-14:00	Rethinking University General Chemistry from the Perspective of Incoming Freshmen's Competencies 曹雅萍 Yaping Tsao / 臺北市立中山女子高級中學
	14:00-14:30	綜合討論 (Discussion)

分組 10 Young Chemist Session I		
Organic Chemistry and Physical Chemistry		
13:00-14:30 / 2nd Floor, SC204		
Chair:		游景晴 Ching-Ching Yu / 國立清華大學
O10-1	13:00-13:15	Accessing Underexplored Polymer Structures via Kinetic-based Design of Polymerization 吳俊緯 Jiun-Wei (Alec) Wu / Northwestern University
O10-2	13:15-13:30	Solvent-Programmed Helical Gelation and Dynamic Imine Folding from Discotic Amphiphiles Reguram Arumugaperumal / 國立臺灣大學
O10-3	13:30-13:45	The Total Syntheses of Palhinines and Cumbiasins 陳致銘 Chih-Ming Chen / 國家衛生研究院
O10-4	13:45-14:00	Green and Sustainable Yne-ynamide Skeletal Rearrangement Strategies for Bioactive Indole Scaffolds Mohana Reddy Mutra / 高雄醫學大學
O10-5	14:00-14:15	Technology-driven Selective Amide Bond Cleavage Karthick Govindan / 高雄醫學大學
O10-6	14:15-14:30	Operando X-ray Absorption Spectroscopy for Electrochemical Energy Systems 陳琮宜 Tsung-Yi Chen / 國家同步輻射研究中心

台灣化學學會 會員代表大會 (CST Meeting of Member Representatives)		
14:45-15:30 / 2nd Floor, SC201		

分組 11 先進分析技術於生物醫學之研究 Advanced Analytical Techniques in Biomedical Research		
16:00-17:30 / 1 st Floor, SC120		
Chairs:		陳朝榮 Chao-Jung Chen / 中國醫藥大學 涂熊林 Hsiung-Lin Tu / 中央研究院
O11-1	16:00-16:20	Advanced LC–MS/MS Strategies for the Quantification of Therapeutic Monoclonal Antibodies Using Microsampling Devices in Clinical Samples 邱懷萱 Huai-Hsuan Chiu / 臺灣大學醫學院附設醫院
O11-2	16:20-16:40	A Fluorescent Biosensing Platform for Sensitive Detection of Beta-amyloid Oligomers in Alzheimer’s Disease 陳彥伶 Yen-Ling Chen / 國立中正大學
O11-3	16:40-17:00	Precision at the Molecular Scale: How the Mass Spectrometry Advances GPCR Drug Discovery 嚴欣勇 Hsin-Yung Yen / 中央研究院
O11-4	17:00-17:20	An Engineered crRNA-Integrated CRISPR-cas12a Analytical Platform for Cancer Screening and Carbapenem-resistant Gene Monitoring 莊旻傑 Min-Chieh Chuang / 東海大學
	17:20-17:30	綜合討論 (Discussion)

分組 12 合成及生物有機化學 Synthetic and Bio-organic Chemistry		
16:00-17:30 / 1 st Floor, SC121		
Chair:		許岱欣 Day-Shin Hsu / 國立中正大學
O12-1	16:00-16:30	Exploration of Metalloenzymes in the Preparation of Natural Products: Mechanistic Insights and Biocatalytic Applications 【English】 張瑋成 Wei-chen Chang / North Carolina State University
O12-2	16:30-16:50	From Enzyme Mechanism to Biomimetic Synthesis: Reactivity Control in Natural Product Assembly 陳榮傑 Rong-Jie Chein / 中央研究院
O12-3	16:50-17:10	Synthesis of Probes for Understanding the Assembly and Function of Microbial Glycans 【English】 呂桐睿 Todd L. Lowary / 中央研究院
O12-4	17:10-17:30	A Practical Synthesis of Nitrene-derived C5a-functionalized Isofagomines as Protein Stabilizers to Treat Gaucher Disease 李皇毅 Huang-Yi Li / 東海大學

分組 13 有機光電材料 Organic Optoelectronic Materials		
16:00-17:30 / 1 st Floor, SC103		
Chair:	汪根穰 Ken-Tsung Wong / 國立臺灣大學	
O13-1	16:00-16:20	Interfacial Engineering Using C-3 Alkyl Linker-Based Carbazole-Derived SAMs and Polyarene-Based Hole-Selective Layers to Achieve ~42% Indoor Efficiency in PSCs 張源杰 Yuan Jay Chang / 東海大學
O13-2	16:20-16:40	Pyrene-based Triplet-triplet Annihilation Hosts with Enhanced Horizontal Orientation for Organic Light-emitting Diodes 李怡葶 Yi-Ting Lee / 東吳大學
O13-3	16:40-17:00	Hole-transporting Materials and Self-assembled Hole-selective Contacts for Perovskite Solar Cells and Tandem Devices 林彥多 Yan-Duo Lin / 東吳大學
O13-4	17:00-17:20	Self-assembled Monolayers (SAMs) as Hole Transporting Materials (HTMs) Development for Perovskite Solar Cells (PSC) 陳銘洲 Ming-Chou Chen / 國立中央大學
17:20-17:30		綜合討論 (Discussion)

分組 14 能源&淨零&催化 Energy, Net Zero, and Catalysis		
16:00-17:30 / 1 st Floor, SC123		
Chair:	陳軍互 Chun-Hu Chen / 國立中山大學	
O14-1	16:00-16:20	Catalysis by Metallic Core-shell Nanocrystals: From Nanocube to Chiral Helicoids 郭俊宏 Chun-Hong Kuo / 國立陽明交通大學
O14-2	16:20-16:40	Efficient Catalytic Electrochemical CO₂ Reduction Reactions to HCOO⁻ /HCOOH over Porous BiOCl Materials 俞聖法 Steve S.-F. Yu / 中央研究院
O14-3	16:40-17:00	Catalytic Copolymerization of Alicyclic Epoxides with Carbon Dioxide by Bimetallic Nickel Complexes 柯寶燦 Bao-Tsan Ko / 國立中興大學
O14-4	17:00-17:20	Mechanism Matters: Understanding the Electrocatalytic Reduction of Carbon Dioxide on Copper through Molecular and Electrokinetic Models 王琢堅 Vincent Wang / 國立中山大學
17:20-17:30		【永光綠色化學研究論文獎】 Upcycling of Waste Aluminum Alloys and Surface Modification Techniques of Anodized Aluminum: Research and Applications 李林叡 Lin-Ruei Lee / 國立陽明交通大學

分組 15 台日韓理論計算研討會 II 【English Session】 Trilateral Symposium on Theoretical and Computational Chemistry II		
16:00-17:30 / 2 nd Floor, SC229		
Chair:	林倫年 Michitoshi Hayashi / 國立臺灣大學	
O15-1	16:00-16:30	Molecular-level Understanding of Ionic Dynamics in Electrolytes via Molecular Dynamics Simulations Kazushi Fujimoto / Kansai University
O15-2	16:30-17:00	Exploring the Ion Conduction Mechanism of Glass Solid-state Electrolytes Bong June Sung / Sogang University
O15-3	17:00-17:30	DFT Study on Cobalt-mediated Fenton-like Reactions 陳信允 Hsing-Yin Chen / 高雄醫學大學

分組 16 The 6th CST- CSJ Joint Symposium II 【English Session】 Precision Chemistry for a Sustainable Future: Carbon Neutrality, AI, and Healthcare		
15:40-17:40 / 2 nd Floor, SC228		
Chair:	蔡易州 Yi-Chou Tsai / 國立清華大學	
O16-1	15:40-16:00	Innovative Chromophore Platforms for Photon Upconversion and Quantum Technologies Nobuhiro Yanai / University of Tokyo
O16-2	16:00-16:20	Speciation-driven Separation of Critical Materials 黃聖尹 Sheng-Yin Dima Huang / 國立成功大學
O16-3	16:20-16:40	Theoretical and Data-driven Approaches to Lanthanide Photofunctional Materials Miho Hatanaka / Keio University
O16-4	16:40-17:00	When It's not Really About Chemical Interactions: On the Gas-separation Mechanism in UTSA-280 邱政超 Cheng-Chau Chiu / 國立中山大學
O16-5	17:00-17:20	Antibody-like Proteins for D-protein Therapeutics Hiroshi Murakami / Nagoya University
O16-6	17:20-17:40	Chemoenzymatic Manipulation of the Lasso Peptide Microcin J25 朱忠瀚 John Chu / 國立臺灣大學

分組 17 同步輻射光源在軟物質與生物領域的應用 I I		
Applications of Synchrotron Radiation Light Source in Soft Matter and Biology I I		
16:00-17:30 / 1 st Floor, SC101		
Chair:	王嘉興 Chia-Hsin Wang / 國家同步輻射研究中心	
O17-1	16:00-16:20	Cryo-Soft X-ray Tomography for Yeast Mitochondria Analysis 張壯榮 Chuang-Rung Chang / 國立清華大學
O17-2	16:20-16:40	Nanoimaging Cells Using Cryo Soft X-Ray Tomography 林子敬 Zi-Jing Lin / 國家同步輻射研究中心
O17-3	16:40-17:00	Structure–Property–Function Design of Photo-Responsive Injectable Hydrogels for Vascularized Regenerative Tissues 陳盈潔 Ying-Chieh Chen / 國立清華大學
O17-4	17:00-17:20	Applications of High Energy X-ray Microscopy to Soft Matter and Biology 宋艷芳 Yen-Fang Song / 國家同步輻射研究中心
	17:20-17:25	綜合討論 (Discussion)
	17:25-17:30	Closing Remarks 王嘉興 Chia-Hsin Wang / 國家同步輻射研究中心

分組 18 能源轉換與儲能【產學論壇】		
Energy conversion and storage		本產學論壇由新光鋼鐵股份有限公司贊助
16:00-17:30 / 2 nd Floor, SC226		
Chair:	王逸萍 Yih Ping Wang / 台灣中油股份有限公司	
O18-1	16:00-16:15	Aqueous Organic Redox Flow Batteries 李志聰 Jyh-Tsung Lee / 國立中山大學
O18-2	16:15-16:30	Development Trends of Long-duration Energy Storage Technologies and Applications 吳錦貞 Ching-Chen Wu / 工業技術研究院
O18-3	16:30-16:45	2025-2026 International Electrochemical Energy Storage Products and Technologies Updates 呂學隆 Hsueh-Lung Lu / 工業技術研究院
O18-4	16:45-17:00	From Materials to Operations: CPC's Energy Storage and EMS Deployment for Gas Station Microgrids 張家林 Chia-Lin Chang / 台灣中油股份有限公司
O18-5	17:00-17:15	Energy Conversion and Storage 侯昇平 Sheng-Ping Hou / 長庚國際能源股份有限公司
	17:15-17:30	綜合討論 (Discussion)

分組 19 生成式 AI 的化學教育應用 【教育論壇】		
Applications of Generative AI in Chemistry Education 本教育論壇由南寶樹脂股份有限公司贊助		
16:00-17:30 / 2nd Floor, SC227		
Chair:	趙奕妤 Ito Chao / 台灣化學學會	
O19-1	16:00-16:15	Beyond Information Retrieval: AI as a Cognitive Catalyst in Chemical Education: From Systematic Assembly to Dialectical Mastery 游靜惠 Chin-Hui Yu / 國立清華大學
O19-2	16:15-16:30	Generative AI in Chemistry Education: Shifting from Knowledge Acquisition to Visible Critical Thinking 劉沂欣 Yi-Hsin Liu / 國立臺灣師範大學
O19-3	16:30-16:45	生成式 AI 輔助行動導向學習於好發地震區域化學安全教育之研究 江政剛 Cheng-Kang Chiang / 國立東華大學
O19-4	16:45-17:00	AI 輔助科學申論題練習工具開發與課堂實作 鄭志鵬 Cheng Chih-Peng / 臺北市立龍山國民中學
17:00-17:30		綜合討論 (Discussion)

分組 20 Young Chemist Session II		
Inorganic Chemistry and Analytical Chemistry		
16:00-17:30 / 2nd Floor, SC204		
Chair:	曾炳堯 Biing-Chiau Tzeng / 國立中正大學	
O20-1	16:00-16:15	Precious Metal Recovery and Environmental Pollutant Analysis 王毓傑 Yu-Chieh Wang / 國立中山大學
O20-2	16:15-16:30	From Order Formation to Catalytic Function: MOF Synthesis and Nanozyme Design Kulandaivel Sivasankar / 國立臺灣師範大學
O20-3	16:30-16:45	Structure-Processing-Property Engineering of Polymeric Materials for 3D Printing and Carbon Capture 謝佳旻 Chia-Min Hsieh / 國立清華大學
O20-4	16:45-17:00	From Molecular Dinitrosyl Complexes to Iron-based Materials: NO Reduction, Unit Transformation, and Nitrite Electroreduction 吳汶諺 Wun-Yan Wu / 國立清華大學
O20-5	17:00-17:15	Small-molecule Modulated Affinity-tunable Semisynthetic Protein Switches and Its Application 吳乾齊 Chien-Chi Wu / 國立清華大學
O20-6	17:15-17:30	Silver-rich Superatoms Passivated by Dichalcophosphate Ligands 邱子豪 Tzu-Hao Chiu / 國立東華大學

Sunday, March 8, 2026 社管大樓

大會演講 III (Plenary Lecture III)	
09:00-09:45 / B1 Floor, 國際會議廳 International Conference Hall	
Chair:	林寬鋸 Kuan-Jiuh Lin / 國立中興大學
09:00-09:45	Advanced Functionalities of Metal Complexes and Metal Oxides Towards Green Transformation Shin-ichi Ohkoshi / University of Tokyo

分組 21 分離科學 Separation Science	
11:00-12:30 / 1 st Floor, SC120	
Chair:	賴建成 Chien-Chen Lai / 國立中興大學
O21-1	11:00-11:20 Hemoglobin Adducts Derived from Acrolein and Crotonaldehyde in Smokers by Nanoflow Liquid Chromatography Tandem Mass Spectrometry 陳皓君 Hauh-Jyun Candy Chen / 國立中正大學
O21-2	11:20-11:40 Development of an Automated Platform for Adsorption Measurement of Complex Organic Gases and Its Application to MOF Adsorption Studies 劉文治 Wen-Tzu Liu / 中原大學
O21-3	11:40-12:00 Rapid Determination of Isoflavones and Other Bioactive Compounds in Soybean Using LC-SWATH-MS and LC-MRM-MS 簡涵如 Han-Ju Chien / 國立嘉義大學
O21-4	12:00-12:20 Strategic Separation and Chemical Enhancement for Expanding the Boundaries of Biomolecule Detection 廖曉偉 Hsiao-Wei Liao / 國立陽明交通大學
12:20-12:30	分析化學研究論文獎-傑出獎短講

分組 22 電化學 Electrochemistry		
11:00-12:30 / 2 nd Floor, SC229		
Chair:	黃景帆 Jing-Fang Huang / 國立中興大學	
O22-1	11:00-11:20	Nitrate-reduction Electrocatalysts Prepared by Electrochemical Approaches in Ionic Liquids 陳泊余 Po-Yu Chen / 高雄醫學大學
O22-2	11:20-11:40	Deep Eutectic Solvents-based Molecularly Imprinted Polymers as an Electrochemical Sensor 謝伊婷 Yi-Ting Hsieh / 東吳大學
O22-3	11:40-12:00	Nonpolar Interactions in Electrochemical Interfaces of Carbon Electrodes and Organic Electrolytes 杜宜容 Yi-Jung Tu / 國立暨南國際大學
O22-4	12:00-12:20	Direct Detection of Enzyme Biomarkers in Whole Blood Using Activitybased Ratiometric Electrochemical Probes for Liver Disease Diagnosis, Therapeutic Assessment, and Post-treatment Monitoring 黃聲東 Sheng-Tung Huang / 國立臺北科技大學
12:20-12:30		綜合討論

分組 23 無機化學基礎原理及合成		
Fundamental Principles and Synthesis of Inorganic Chemistry		
11:00-12:30 / 2 nd Floor, SC228		
Chair:	陳喧應 Hsuan-Ying Chen / 高雄醫學大學	
O23-1	11:00-11:20	Through-bond Coordination Mediated by a Mo-Mo Quintuple Bond 蔡易州 Yi-Chou Tsai / 國立清華大學
O23-2	11:20-11:40	Modulating σ-donation and π-acceptance in NHC Ligands: Implications for Pd(0)/Pd(II) Catalytic Cycles 李漢文 Hon-Man Lee / 國立彰化師範大學
O23-3	11:40-12:00	Ligand-controlled O–O Bond Cleavage Pathways in Non-heme TPA–Fe(III)–Acylperoxo COMPLEXES 陳炳宇 Peter Ping-Yu Chen / 國立中興大學
O23-4	12:00-12:20	Metal–organic Frameworks as Robust Platforms for Copolymerization and CO₂ Valorization 蔡振彥 Chen-Yen Tsai / 國立中興大學
12:20-12:30		無機化學研究論文獎-傑出獎短講

分組 24 機械有機化學 Mechanoorganic Chemistry		
11:00-12:30 / 1 st Floor, SC101		
Chair:	林韋佑 Wei-Yu Lin / 高雄醫學大學	
O24-1	11:00-11:20	Mechanochemical Electrophilic Aromatic Halogenation Facilitated by Ball-milling 杜澄達 To Ching Tat / 東海大學
O24-2	11:20-11:40	Regioselective Alkyne Hydroboration Accelerated by Ball Milling 梁子輝 Tsz-Fai Leung / 國立中山大學
O24-3	11:40-12:00	Development of O-sialylation Method in Mechanochemistry 李珮甄 Pei-Jhen Li / 國立中正大學
O24-4	12:00-12:20	Total Synthesis of (±)-Arnigenone via Stereodivergent Angular Triquinane Syntheses 黃郁文 Yu-Wen Huang / 國立清華大學
12:20-12:30		有機化學研究論文獎 - 傑出獎短講

分組 25 生物有機化學與應用 Bioorganic Chemistry and Applications		
11:00-12:30 / 2 nd Floor, SC202		
Chair:	王聖凱 Sheng-Kai Wang / 國立清華大學	
O25-1	11:00-11:20	On-bead Aspartic and Glutamic Acid Side-chain Modification 高佳麟 Chai-Lin Kao / 高雄醫學大學
O25-2	11:20-11:40	1,2,3-Triazine Chemistry: From Methodology Development to Fluorescent Probe Design 謝俊結 Jiun-Jie Shie / 中央研究院
O25-3	11:40-12:00	Cisd2 Activators: Discovery and Exploration of Their Potential in Nonalcoholic Fatty Liver Disease 李靜琪 Jinq-Chyi Lee / 國家衛生研究院
O25-4	12:00-12:20	Divergent Tandem Strategies for the Synthesis of Bioactive Polyheterocyclic Scaffolds 李文泰 Wen-Tai Li / 衛生福利部國家中醫藥研究所
12:20-12:30		化學生物研究論文獎-傑出獎短講

分組 26 先進低溫電子顯微鏡 Advanced Cryo-electron Microscopy		
11:00-12:30 / 2 nd Floor, SC201		
Chair:		詹益慈 Yi-Tsu Chan / 國立臺灣大學
O26-1	11:00-11:20	Structural Elucidation of Giant Molecular Cages by Cryo-EM 詹益慈 Yi-Tsu Chan / 國立臺灣大學
O26-2	11:20-11:40	From Carbon Fixation to Anti-fungal Development: an ATP Sensitive Phosphoketolase 張瓊文 Mary Chang / 中國醫藥大學
O26-3	11:40-12:00	Exploring Molecular Structures with Cryo-EM: From Sample Conditions to Accessible High-resolution Results 張淵智 Yuan-Chih Chang / 中央研究院
O26-4	12:00-12:20	Structural Basis of KtrAB Activation and the Inhibitory Regulation of Potassium Uptake by c-di-AMP 胡念仁 Nien-Jen Hu / 國立中興大學
	12:20-12:30	物理化學研究論文獎 -傑出獎短講

分組 27 二氧化碳儲存&轉化 CO ₂ Storage and Conversion		
11:00-12:30 / 2 nd Floor, SC226		
Chair:		李位仁 Way-Zen Lee / 國立臺灣師範大學
O27-1	11:00-11:20	Catalytic Reductive Conversion of Carbon Dioxide by Iron Complex 江明錫 Ming-Hsi Chiang / 中央研究院
O27-2	11:20-11:40	CO₂ Supply in Electrolysis: Electrode Design and Pressure-enabled Mass Transfer for High-rate Electrochemical CO₂ Reduction 周子勤 Tsu-Chin Chou / 國立清華大學
O27-3	11:40-12:00	PdAg Nanoalloy for Electrocatalytic Reduction of Nitrate to Ammonia 邱宗文 Tzung-Wen Chiou / 東海大學
O27-4	12:00-12:20	From Molecular Complexes to Metal Pyrazolate Frameworks: Unveiling Novel Mechanisms for Direct Air Capture and Transformation of Carbon Dioxide 魯才德 Tsai-Te Lu / 國立清華大學
	12:20-12:30	綜合討論

分組 28 從方程式到分子：數理化學的新契機 From Equations to Molecules: Emerging Opportunities in Mathematical, Physical, and Chemical Sciences		
11:00-12:30 / 2 nd Floor, SC204		
Chair:	郭哲來 Jer-Lai Kuo / 中央研究院	
O28-1	11:00-11:30	Statistical Mechanics, Tensor Network, and Renormalization 陳柏中 Po-Chung Chen / 國立清華大學
O28-2	11:30-12:00	Quantum Electrodynamics Chemistry: Chemistry Meets Plasmon Polaritons and Cavity Photons 許良彥 Liang-Yan Hsu / 中央研究院
O28-3	12:00-12:30	Manifold Optimization for Quantum Channel Reconstruction 林敏雄 Min-Hsiung Matthew Lin / 國立成功大學

分組 29 NCHU-UTokyo Special Session I 【English Session】 AI-Enabled Precision Drug Discovery and Development		
11:00-12:30 / 1 st Floor, SC111		
11:00-11:10	Opening Remarks 莊敦堯 Duen-Yau Chuang / 國立中興大學 Tatsuya Tsukuda / University of Tokyo	
Chair:	鍾靈 Ling Jong / 國立中興大學	
O29-1	11:10-11:25	Development of Biomolecules-targeted Binders by Decoding RNA Sequences Haruo Aikawa / University of Tokyo
O29-2	11:25-11:40	Advancing CMC Process Development with Precision Chemistry: End-to-end Automated Analytics via MAPPS 韋佩勛 Brian Wei / Sanofi
O29-3	11:40-11:55	Diabetes Drug Discovery Using the Drosophila Fat Body Jorgen Walker Peterson / University of Tokyo
O29-4	11:55-12:10	Decoupling Global and Local Dynamics to Develop a Trans-acting Ribozyme System 賴奕丞 Yei-Chen Lai / 國立中興大學
O29-5	12:10-12:25	Screening Peptide Backbone Suitable for Trigger-responsive Peptidyl Liposome Release 李賢明 Hsien-Ming Lee / 中央研究院
12:25-12:30	綜合討論 (Discussion)	

生涯精進 Career Development :	
AI 驅動專利論文地圖協助掌握創新研發致勝趨勢	
本議程由台耀化學股份有限公司贊助	
12:30-13:30 / 2nd Floor, SC229	
Chair:	陸大榮 Ta-Jung Lu / 國立中興大學
12:30-13:30	AI 驅動專利論文地圖協助掌握創新研發致勝趨勢 劉如熹 Ru-Shi Liu / 國立臺灣大學

【國網中心】不一樣的選擇－國網中心 A Different Path－NCHC	
12:30-13:20 / 1st Floor, SC120	
12:30-13:20	鄭吉峰

【布魯克】先進技術應用說明會 Bruker Advanced Technology Application Briefing	
12:30-13:20 / 1st Floor, SC101	
Part 1	Advanced AFM Application: Nano-electrics, NanoIR, and High-speed Scan Lin Fan-Yen, Senior Engineer, Applications
Part 2	布魯克先進的 X 射綫衍射技術最新進展 資深應用專員 洪金俊博士

分組 30 質譜分析 Mass Spectrometry	
13:30-15:00 / 1st Floor, SC120	
Chair:	陳頌方 Sung-Fang Chen / 國立臺灣師範大學
O30-1	13:30-13:50 Carbohydrate Structural Determination Using Logically Derived Sequence Tandem Mass Spectrometry 倪其焜 Chi-Kung Ni / 高雄醫學大學
O30-2	13:50-14:10 Differentiating Mycobacterium Tuberculosis from Nontuberculous Mycobacteria with Nanoparticle Platforms and Mass Spectrometry 彭文平 / 國立東華大學
O30-3	14:10-14:30 A Reductive Amination Strategy Combined with Precursor Ion Scanning for the Capture and Identification of Aldehydes 梁世欣 Shih-Shin Liang / 高雄醫學大學
O30-4	14:30-14:50 Glycomic Signature of IgG, IgA, and IgM in Elderly Tuberculosis Patients: Distinguishing Active from Latent Infection 蔡伊琳 I-Lin Tsai / 臺北醫學大學
14:50-15:00	綜合討論

分組 31 化學感測器與顯影技術 Chemical Sensors, Imaging Techniques		
13:30-15:00 / 2nd Floor, SC229		
Chair:	陳志欣 Chih-Hsin Chen / 淡江大學	
O31-1	13:30-13:50	Fabrication and Gas-sensing Properties of Chemiresistive-type Gas Sensors and Flexible Gas Sensors 蘇平貴 Pi-Guey Su / 東吳大學
O31-2	13:50-14:10	Connecting Surface Morphology with Electrochemical Sensors: The Impact of Structural Design on Nanocomposite Performance 陳生明 Shen-Ming Chen / 國立臺北科技大學
O31-3	14:10-14:30	Triboelectrification at Solid-liquid Interfaces: Surface Chemistry-driven Charge Transfer for Self-powered Nanosensing 林宗宏 Zong-Hong Lin / 國立臺灣大學
O31-4	14:30-14:50	Biodegradable MXene-bamboo Cellulose Paper Electrodes for Green Wearable Sensing and Exoskeleton Control 林子恩 Tzu-En Lin / 國立臺灣大學
14:50-15:00		應用化學研究論文獎-傑出獎短講

分組 32 無機錯鹽：材料中的應用與展望 【English Session】		
Inorganic Coordination Complexes: Applications and Perspectives in Materials		
13:30-15:00 / 2nd Floor, SC228		
Chair:	游源祥 Yuan-Hsiang Yu / 天主教輔仁大學	
O32-1	13:30-13:50	Carbon Dioxide Sequestration with Well-defined Early Transition Metal Oxides and Its Conversion to Carbonate Using Nitrous Oxide Daniel J. Mindiola / University of Pennsylvania
O32-2	13:50-14:10	Copper Complexes as Promising Mediator for Dye-sensitized Solar Cells 陳卿謹 Ching-Chin Chen / 國立中興大學
O32-3	14:10-14:30	NHC-modified Multimetallic Nanoparticles: Precision Engineering for Emerging Applications 李建宏 Chien-Hung Li / 高雄醫學大學
O32-4	14:30-14:50	Strategies Towards Rational Design of Gold(III) Complexes for High-performance Organic Light-emitting Devices 吳嘉盈 Maggie Ng / 國立臺灣師範大學
14:50-15:00		綜合討論

分組 33 先進有機合成 Advanced Organic Synthesis		
13:30-15:00 / 1 st Floor, SC101		
Chair:	林韋佑 Wei-Yu Lin / 高雄醫學大學	
O33-1	13:30-13:50	Decarboxylative Coupling and C–H Activation of Proaromatic Acids: A Modular Approach to Molecular Complexity 周志明 Chih-Ming Chou / 國立高雄大學
O33-2	13:50-14:10	Alkene Isomerization as a Design Tool for Stereoconvergent and Domino Transformations 何國銘 Guo-Ming Ho / 國立高雄師範大學
O33-3	14:10-14:30	Serendipitous Pathways to Novel Indeno-Isoxazoles, Indenones, Fluorenone–Anthrones, and Benzocycloheptafluorenones 朱見和 Jean-Ho Chu / 國立臺東大學
O33-4	14:30-14:50	Building Carbocyclic-fused Coumarin Scaffolds as Robust Photocages: From Photocatalysis to Photolysis 朱智謙 Chih-Chien Chu / 中山醫學大學
14:50-15:00		藥物化學研究論文獎-傑出獎短講

分組 34 可觸發響應的化學生物學 Trigger-responsive Chemical Biology		
13:30-15:00 / 2 nd Floor, SC202		
Chair:	李賢明 Hsien-Ming Lee / 中央研究院	
O34-1	13:30-13:50	Spatiotemporal Controlling and Tracking in Biosystems via Versatile Stimuli-Responsive Caged Probes 王宗興 Tsung-Shing Wang / 國立臺灣大學
O34-2	13:50-14:10	Trigger-Responsive Modulation of Biomolecular Condensates in Neurodegenerative Proteinopathy 黃人則 Jen-Tse Huang / 中央研究院
O34-3	14:10-14:30	Arylboronates as ROS-Responsive Reactive Warheads: From Molecular Probes to Precision Nanomedicines 賴千蕙 Chian-Hui Lai / 國立中興大學
O34-4	14:30-14:50	Nano- and Bio-materials-enabled Drug Delivery Technologies for Disease Therapy 陳緯 Wei Chen / 中央研究院
14:50-15:00		綜合討論

分組 35 先進奈米與電池材料的分析與應用技術 【English Session】		
Analytical and Application Techniques of Novel Nano- and Battery Materials		
13:30-15:00 / 2 nd Floor, SC201		
Chair:	郭俊宏 Chun-Hong Kuo / 國立陽明交通大學	
O35-1	13:30-13:50	Synchrotron XRD and HR-TEM Revelation of Surface Layer Lattice Deviations Producing Facet-dependent Behaviors of Semiconductor Crystals 黃暄益 Michael H. Huang / 國立清華大學
O35-2	13:50-14:10	Efficient and Reliable Materials for Electronics by TCI Taro Tanabe / Tokyo Chemical Industry
O35-3	14:10-14:30	Advanced XAFS Spectroscopy Investigation of Electronic and Atomic Structure of Energy Materials 包志文 Chih-Wen Pao / 國家同步輻射研究中心
O35-4	14:30-14:50	Unraveling the Mechanisms of Oxygen Evolution and Ammonia Formation Using in Situ NAP-XPS and Operando Raman Spectroscopy 張裕煦 Yu-Hsu Chang / 國立臺北科技大學
14:50-15:00	【永光綠色化學研究論文獎】 Highly Electronegative Element Incorporated Lithium-rich Iron Sulfide Cathodes for Rechargeable Lithium-ion Batteries Hailemariam Adane Gebresilassie / National Taiwan University	

分組 36 仿生催化 Biomimetic Catalysis		
13:30-15:00 / 2 nd Floor, SC226		
Chair:	洪政雄 Chen-Hsiung Hung / 中央研究院	
O36-1	13:30-13:50	Advancing Coordination Chemistry through Bioinspired Design and Functional Innovation 許智能 Sodio C. N. Hsu / 高雄醫學大學
O36-2	13:50-14:10	Chemical Richness in Plasmonics: Metal Complex–gold Interactions for Advanced Biosensing 江建文 Kien Voon Kong / 國立臺灣大學
O36-3	14:10-14:30	Photoinduced NO or HNO Production from Metal-nitrosyl Complexes Bearing Pendant Thiol or Metal-bound Diaryldisulfide 李建明 Chien-Ming Lee / 國立臺東大學
O36-4	14:30-14:50	Ferritin Nanocages Enable Artificial Metalloenzyme Engineering and High-entropy Chalcogenide Semiconductor Fabrication 王彥士 Yane-Shih Wang / 國立臺灣師範大學
14:50-15:00	綜合討論	

分組 37 生物與生醫中的計算化學 Computational Chemistry in Biological and Biomedical Sciences		
13:30-15:00 / 2 nd Floor, SC204		
Chair:	朱智瑋 Jih-Wei Chu / 國立陽明交通大學	
O37-1	13:30-13:50	Structure and Dynamics of SERF1a, an Intrinsically Disordered Protein Catalysing Amyloidogenesis in Neurodegenerative Diseases 林榮信 Jung-Hsin Lin / 中央研究院
O37-2	13:50-14:10	Refining Gō-like Coarse-grained Framework for Accurate Protein Chirality and Mechanical Response 邱繼正 Chi-cheng Chiu / 國立成功大學
O37-3	14:10-14:30	Diffusion with a Twist: Interfacial Energy Landscapes Governing Amyloid-beta Dynamics 蔡旻燁 Min-Yeh Tsai / 國立中正大學
O37-4	14:30-14:50	Computational Insights into Prion Protein Dynamics and Neurodegeneration: From Molecular Motions to Pathological Transitions 李政怡 Cheng-I Lee / 國立中正大學
14:50-15:00		綜合討論

分組 38 NCHU-UTokyo Special Session I I 【English Session】 Precision Materials and Electrochemistry for a Sustainable Future		
(Part A) Time: 13:30-15:00 / 1 st Floor, SC111		
Chair:	賴奕丞 Yei-Chen Lai / 國立中興大學	
O38-1	13:30-13:45	Atomically-precise Gold Nanoclusters as Building Blocks for Functional Materials Tatsuya Tsukuda / University of Tokyo
O38-2	13:45-14:00	Facile Access to C-S, C-O, and C-N Bond Formation Using Sustainable Materials and Methods 梁健夫 Chien-Fu Liang / 國立中興大學
O38-3	14:00-14:15	Precision Molecular Modeling of Reactive Phase Transformations in Magnesium Oxide via AI-accelerated Dynamics 吳台偉 David Wu / 中央研究院
O38-4	14:15-14:30	Formation of Intricate Supramolecular Structures Through Self-assembly of Macrocyclic Building Blocks Exhibiting Dynamic Isomerism Shohei Tashiro / University of Tokyo
O38-5	14:30-14:45	Modulating Activation Pathways in Nickel-catalyzed Bond Formation 李紹齊 Shao-Chi Lee / 國立中興大學
O38-6	14:45-15:00	Developing Ferrite Nanomaterials through Metal Substitution, Morphological Control and Composite Formation Jessica Macdougall / University of Tokyo

(Part B) Time: 15:15-17:15 / 1st Floor, SC111		
Chair:	梁建夫 Chien-Fu Liang / 國立中興大學	
O38-7	15:15-15:30	Molecular Technology for Electrochemical Thermoelectric Conversion Teppei Yamada / University of Tokyo
O38-8	15:30-15:45	Nanoplasmonic Hybrid Photoelectrodes for One-step Immunosensing Devices 林寬鋸 Kuan-Jiuh Lin / 國立中興大學
O38-9	15:45-16:00	Epsilon Iron Oxide Ferrite Magnets with Giant Magnetic Anisotropy for High-frequency Electromagnetic Applications Asuka Namai / University of Tokyo
O38-10	16:00-16:15	A Synergistic Nanomaterial-enabled Strategy for Paper-based Analytical Platforms 林佳慧 Jia-Hui Lin / 國立中興大學
O38-11	16:15-16:30	MOF-based Confinement Strategy for Disrupting Hydrogen-bonded Fatty Acid Dimers and Tailoring Phase Transition Behavior Kunyi Leng / University of Tokyo
O38-12	16:30-16:45	From the Fundamental Ionization Mechanisms to a Practical Solution in Mass Spectrometry 盧臆中 I-Chung Lu / 國立中興大學
O38-13	16:45-17:00	Design of Multifunctional Switchable Materials Based on Spin-crossover Phenomena Olaf Stefanczyk / University of Tokyo
	17:00-17:15	Closing Remarks 林寬鋸 Kuan-Jiuh Lin / 國立中興大學 Teppei Yamada / University of Tokyo