

GOLDEN ACADEMY

Message from the organizers

Dear Colleagues and Friends,

2015 International Conference for Top and Emerging Materials Scientists (IC-TEMS 2015) will be held in Lijiang, China during July 19-22 2015.

IC-TEMS 2015 is aimed at providing an international platform for the exchange and networking between top scientists, emerging young researchers, and students across a wide spectrum of materials science and engineering from US, Canada, UK, EU countries, and Asia Pacific areas including Japan, Korea, India, Singapore, Taiwan, Hong Kong and China.

We would like to invite you to participate in IC-TEMS 2015. Your active participation is the key to the success of this conference.



Yours Sincerely,

IC-TEMS 2015 Committee

Asia Pacific Society for Materials Science (APSMR)

www.apsmr.org



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Conference organizing committee

CONFERENCE CHAIRS

Prof. Ji Yan DAI (The Hong Kong Polytechnic University, Hong Kong)

Prof. Chain-Shu HSU (National Chiao Tung University, Taiwan)

Prof. Il KIM (Pusan National University, Korea)

Prof. Nack Joon KIM (Pohang University of Science and Technology, Korea)

Prof. Leeyih WANG (National Taiwan University, Taiwan)

Dr. Rudder WU (Japan National Institute for Materials Science, Japan)

Prof. Feng YAN (The Hong Kong Polytechnic University, Hong Kong)

CONFERENCE PROGRAM DIRECTOR

Dr. Yingxue SONG (APSMR)

CONFERENCE SECRETARIAT

Ms. Yangjun HU (APSMR)



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Conference topics

- 1. Structure materials and Functional Coatings (metals, ceramics, and composites): No. 10-13, 15, 16**
- 2. Materials for Energy and Environmental Applications: No. 7-9**
- 3. Electronics, Magnetics and Nanomaterials: No. 1, 2, 21-25**
- 4. Polymer Science and Molecular Chemistry: No. 14, 17-20, 28**
- 5. Organic Materials and Biomaterials: No. 3-6, 26, 27**

	SUN, 07/19	MON, 07/20	TUE, 07/21	WED, 07/22
9:00 – 10:00	Staff Meeting	Oral Presentation		
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:15		Oral Presentation		
12:15 – 13:15		Lunch Break		
13:15 – 14:45		Oral Presentation	Oral Presentation	Optional Conference Excursion
14:45 – 15:00		Coffee & Tea Break	Coffee & Tea Break	
15:00 – 17:00	Conference Registration	Oral Presentation	Oral Presentation	
17:00 – 18:45			Poster Session	
19:00 – 20:30			Conference Banquet (Approx. 2 hrs)	
20:30 – 22:00	Conference Reception			

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Presentation List

	SUN, 07/19	MON, 07/20	TUE, 07/21	WED, 07/22
9:00 – 10:00	Staff Meeting	1. D. GUO 2. H. YANG	15. Y.K. SHEN 16. L. ZHANG	29. Reserved 30. Reserved
10:00 – 10:15		Coffee & Tea Break		
10:15 – 12:15		3. A.Q. JIANG 4. Z.H. SUN 5. Q.D. TAI 6. P. LIN	17. A. TSUDA 18. B.R. LI 19. S.Y. PARK 20. J.C. TSAI	31. Reserved 32. Reserved 33. Reserved 34. Reserved
12:15 – 13:15		Lunch Break		
13:15 – 14:45		7. L.C. CHEN 8. J.H. ZHU 9. C.T. CHEN	21. M. ZENG 22. X.B. LU 23. J.W. GAO	Optional Conference Excursion
14:45 – 15:00		Coffee & Tea Break	Coffee & Tea Break	
15:00 – 17:00	Conference Registration	10. S.S. PARK 11. J.G. LEE 12. B. HWANG 13. S. KIM 14. I.L. KIM	24. K. KEMPA 25. L.F. FEI 26. Y.H. TSANG 27. J.H. LI 28. C.S. HSU	
17:00 – 18:45			Poster Session	
19:00 – 20:30			Conference Banquet (Approx. 2 hrs)	
20:30 – 22:00	Reception			

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Presentations for IC-TEMS 2015

MONDAY 07/20

1. High Temperature Performance and Structural Stability of High Tc Piezoelectric Ceramics (D. GUO, Institute of Acoustics)
2. Oxygen Vacancies Effects in $\text{Eu}_{0.5}\text{Ba}_{0.5}\text{TiO}_3$ Multiferroic Thin Films (H. YANG, Nanjing University of Aeronautics and Astronautics)
3. Limited domain switching speed in polyvinylidene fluoride copolymer thin films (A.Q. JIANG, Fudan University)
4. Improvement of Optoelectronic Devices by Nano Inorganics: Photovoltaics and Photodetection (Z.H. SUN, Shenzhen University)
5. Efficient and stable perovskite solar cells prepared in ambient air irrespective of the humidity (Q.D. TAI, Jiangnan University)
6. Chemical and biological sensors based on organic electrochemical transistors (P. LIN, Shenzhen University)
7. Functional Catalysts Stimulated by Biomimetic Concepts: Macrocyclics and Graphene Oxides for Fuel Cells and Solar Fuels (L.C. CHEN, National Taiwan University)
8. Eliminating the tobacco-specific nitrosamines (TSNA) in smoke (J.H. ZHU, Nanjing University)

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9. High performance hybrid white OLEDs using new heteroleptic platinum complex dopant and a new blue fluorescent host material (C.T. CHEN, Academia Sinica)
10. Mechanical and corrosion properties of extruded Mg-Sn-based alloys (S.S. PARK, Ulsan National Institute of Science and Technology)
11. Diffusion Brazing of Nuclear Titanium and Zirconium Alloys Using Amorphous Brazing Alloys (J.G. LEE, University of Ulsan)
12. Effect of Nitrogen and Carbon on Ductile-Brittle Transition Behavior of Austenitic Fe-18Cr-10Mn Alloys (B. HWANG, Seoul Nat. Univ. of Sci. & Tech.)
13. Fatigue behavior of high manganese steels in various environments (S. KIM, Gyeongsang National University)
14. Molecular Chimeric Materials Showing Intrinsic Targetability to Cancer Cells (I.L. KIM, Pusan National University)

TUESDAY 07/21

15. Cell culture characteristics of 3D PCL/graphene biomedical scaffold (Y.K. SHEN, Taipei Medical University)
16. Application of nanoindentation in materials science (L. ZHANG, Chongqing University)
17. Audible Sound-Induced Alignments of Supramolecular Nanofibers (A. TSUDA, Kobe University)

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18. Construct an effective antifouling layer on a Au surface via electrochemical deposition (B.R. LI, National Chiao Tung University)
19. Novel biosensors using functionalized the liquid crystal/water interface (S.Y. PARK, Kyungpook National University)
20. Stereoregular Diblock Copolymers: Syntheses and Self-assembled Nanomorphologies (J.C. TSAI, National Chung Cheng University)
21. Energy Storage Properties of (001)-oriented $\text{Pb}_{0.97}\text{La}_{0.02}(\text{Zr}_{0.95}\text{Ti}_{0.05})\text{O}_3$ Antiferroelectric Films and its Antiferroelectric–Ferroelectric Phase Transformation in Multilayer Thin Film Structures (M. ZENG, South China Normal University)
22. Characterization of charge trapping memory devices based on high-k trapping layers (X.B. LU, South China Normal University)
23. Low-cost Subwavelength metallic Network as a High Performance Transparent conductor (J.W. GAO, South China Normal University)
24. Fractal and plasmonic effects in transparent metallic networks (K. KEMPA, Boston College)
25. Graphene/sulfur Hybrid Nanosheets from a Space-confined "Sauna" Reaction for High-performance Lithium-sulfur Batteries (L.F. FEI, The Hong Kong Polytechnic University)

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26. Effect of laser excitation on a few-layer MoS₂ nanosheet in N-methyl pyrrolidinone (Y.H. TSANG, The Hong Kong Polytechnic University)
27. The applications of high-k relaxor ferroelectric polymer in low voltage organic thin film transistors and floating gate transistor memories (J.H. LI, Hubei University)
28. Development of Conjugated Polymers and Fullerene Derivatives for Organic Solar Cell Applications (C.S. HSU, National Chiao Tung University)

POSTER SESSION

- P1. New Technology for Preparations of Metallocene Catalysts and Applications in the Preparations of Isotactic Polystyrene-based Stereoregular Diblock Copolymers (C.H. CHIANG, National Chung Cheng University)
- P2. Preparation of polypyrrole/graphene nanocomposites using in-situ polymerization and their applications to capacitors (W.G. JO, Kyungpook National University)
- P3. Liquid crystal droplets functionalized with charged surfactant and polyelectrolytes for protein detection (Y. LEI, Kyungpook National University)
- P4. One-Pot Synthesis of MoO₃/Polyimide Hybrid Photocatalyst with Enhanced Photocatalytic Activity under Visible Light Irradiation (C.H. MA, Nanjing University)

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P5. Novel menthol releaser based on the as-synthesized mesoporous silica (X.Y.M. DONG, Nanjing University)

P6. Facile synthesis of high photocatalytic active porous g-C₃N₄ with ZnCl₂ template (X.D. SUN, Nanjing University)

P7. Polypropylene/graphene oxide nanocomposite prepared by grafting maleic anhydride-grafted polypropylene on the amine-functionalized graphene oxide and its compounding with polypropylene (J.H. WOO, Kyungpook National University)

P8. Porous Polyimide Based Photocatalyst With Enhanced Photocatalytic Activity in Methyl Orange Degradation (J. ZHOU, Nanjing University)

WEDNESDAY 07/22

29. Reserved

30. Reserved

31. Reserved

32. Reserved

33. Reserved

34. Reserved