

MNHTE2017 Program

Friday, September 29th, 2017

18:00 – Welcome Reception

20:00  Teachers' Hostel – The Tao Li Yuan Chinese Restaurant (桃李緣餐廳)

Day 1: Saturday, September 30th, 2017

09:00 – Registration

10:00  Teachers' Hostel – Ying-Bin Building 1F Lobby

10:00 – Opening Ceremony

10:30  Teachers' Hostel – Conference Building 3F Assembly Hall (集會堂)

10:40 – **MDPI Speeches**


11:10  Teachers' Hostel – Conference Building 3F Assembly Hall

ICI & MNHTE Keynote Speech I

11:10 – Title: Femtosecond ionization mass spectrometry

11:50 Speaker: Prof. **Totaro Imasaka**

Chair: Prof. Cheng-Chi Wang

 Teachers' Hostel – Conference Building 3F Assembly Hall

12:10 – Lunch

13:30  The Lalu Hotel-B1 The Oriental Brasseries (東方餐廳)

Keynote Speech I

13:30 – Title: Laser induced nanoparticle melting and its application

14:10 Speaker: Prof. **Seung Hwan Ko**

Chair: Prof. Ming-Tsang Lee

 Teachers' Hostel – Conference Building 3F Assembly Hall

Invited Speech I

14:10 – Title: Heat conduction of polycrystalline diamond films, crystalline diamond substrates, and SiGeSn thin films studied by ultrafast spectroscopy

14:40 Speaker: Dr. **Kung-Hsuan Lin**

Chair: Prof. Ming-Tsang Lee

 Teachers' Hostel – Conference Building 3F Assembly Hall

Invited Speech II


14:40 – Title: Mass transfer in the solid oxide fuel cell

15:10 Speaker: Prof. **Hironori Nakajima**

Chair: Prof. Ming-Tsang Lee

 Teachers' Hostel – Conference Building 3F Assembly Hall

Invited Speech III

15:10 – Title: Drops, bubbles on nanostructured surfaces and their applications
15:40 Speaker: Prof. **Yen-Wen Lu**
Chair: Prof. Ming-Chang Lu
 Teachers' Hostel – Conference Building 3F Assembly Hall

Invited Speech IV

15:40 – Title: Exploring new fundamentals and applications of nanoporous membranes: A nanofluidic approach
16:10 Speaker: Prof. **Chuanhua Duan**
Chair: Prof. Ming-Chang Lu
 Teachers' Hostel – Conference Building 3F Assembly Hall

16:10 – Tea Break

16:20  Teachers' Hostel –3F Corridor

ICI & MNHTE Keynote Speech II

16:20 – Title: Cooling hot spots with functionalized graphene
17:00 Speaker: Dr. **Sebastian VOLZ**
Chair: Dr. Chih-Wei Chang
 Teachers' Hostel – Conference Building 3F Assembly Hall

ICI & MNHTE Keynote Speech III

17:00 – Title: Classifications of Research and Development Patents
17:40 Speaker: Prof. **Gou-Chung Chi**
Chair: Prof. Ming-Tsang Lee
 Teachers' Hostel – Conference Building 3F Assembly Hall

17:50 – Group Photo


18:10  Teachers' Hostel – Conference Building 3F Assembly Hall

18:30 – Banquet

20:30  The Lalu Hotel – 1F Lalu Garden(花坊餐廳)

Day 2: Sunday, October 1st, 2017

Invited Speech V

08:20 – Title: Active thermal conductivity control of magnetic nanofluids
08:50 Speaker: Prof. **Yuhiro Iwamoto**
Chair: Prof. Huei Chu Weng
 Teachers' Hostel –2F Room C

Invited Speech VI

08:50 – Title: Heat transfer and thermoelectric properties of 2D materials
09:20 Speaker: Dr. **Wen-Pin Hsieh**
Chair: Prof. Huei Chu Weng
 Teachers' Hostel –2F Room C

Invited Speech VII

09:20 – Title: Ultralow thermal conductivity and thermal diffusivity in graphene/metal heterostructures
09:50 Speaker: Prof. **Yee Kan Koh**
Chair: Prof. Huei Chu Weng
📍 Teachers' Hostel -2F Room C

Invited Speech VIII

09:50 – Title: Laser-induced plasma drilling of silica glass
10:20 Speaker: Prof. **Hirofumi Hidai**
Chair: Prof. Huei Chu Weng
📍 Teachers' Hostel -2F Room C

MNHTE2017 Session

Poster Presentations

10:30 – 012649; 012793;
11:45 012804; 012809;
012843; 012852
📍 Teachers' Hostel -1F Corridor

Oral Presentations

10:30 – 012692; 10:45 – 012687;
11:00 – 012704; 11:15 – 012782;
11:30 – 013326
Chair: Prof. Yu-Bin Chen
📍 Teachers' Hostel -2F Room C

The 2017 Board Meeting and General Assembly of Heat and Mass Transfer Society of Taiwan

12:00 –
13:00 📍 Teachers' Hostel -2F Room C (12:00 -12:40 Lounge: 1F Room A)

Lunch

12:00 –
13:30 📍 The Lalu Hotel - 1F Lalu Garden (花坊餐廳)

Free Afternoon

13:30 – (If any MNHTE2017 VIP would like to leave Nantou in the afternoon, he/she can book a seat with the staff
18:00 (Wei-Fan Chen 陳韋帆) in advance and then take our shuttle at 2:00 pm. The shuttle will go to the THSR (Taiwan High Speed Rail) Taichung Station first (about 4:00 pm), then to the THSR Taoyuan Station (about 6:30 pm), and finally to Chung Yuan Christian University (about 7:00 pm))

Monday, October 2nd, 2017

Technical Visit & Communication

09:00 –
18:00 (see the '[Free Tour](#)' arranged by ICI2017)

MNHTE2017 Session

10:30 –11:45, Sunday, October 1st, 2017

Poster Presentations

N012649

Highly stretchable and transparent copper nanowire heater for wearable electronics

Dongkwan Kim, Habeom Lee, Seung Hwan Ko and Sukjoon Hong

N012793

Flexible thermoelectric power generator

Yuh-Chung Hu and Kuo-Yi Huang

N012804

Effect of nanoparticles mean diameter on thermal transition of convective nanofluids flow in a square cavity

Chuan-Chieh Liao

X4012809

Enhancement of photo-thermal energy conversion and utilizations using nanomaterials

Ming-Tsang Lee and Hironori Nakajima

N012843

Enhancing convective heat transfer on the roughened surfaces using mist flow

Yao-Hsien Liu, Yi-Hsuan Huang, Szu-Kai Wang and Kuan-Tzu Huang

N012852

Enhanced CHF on the ZnO nanostructured surfaces

Ming-Chang Lu, Yu-Chi Chen, Wei-Shen Chiang and Pu-Wei Wu

Oral Presentations

N012692

Microscale transport phenomena in the novel laser direct metal synthesis and patterning process

Chung-Hsiang Jiang, Pei-Jun Huang, Song-Ling Tsai, Chen-Jui Lan and Ming-Tsang Lee

N012687

Investigating the heat transfer phenomena of water-EGS in the reservoir by experiment verification

Yi-Hong Chen, David T.W. Lin, Jui-Ching Hsieh, Chun-Ping Jen and Yuh-Chung Hu

N012704

Magnetowetting of magnetic nanofluids on AAO surface

Yu-Chin Chien and Huei Chu Weng

X4012782

Electrochemical impedance spectroscopy study of the electrode microstructure of the lithium-ion battery

Hironori Nakajima, Akiko Inada and Tatsumi Kitahara

N013326

Development of a hybrid arima-ann model for electricity short-term load forecasting in Taiwan power company

K. W. Yu, C. H. Hsu, C. J. Chen and S. M. Yang