

| Program at glance (by 2024-9-12) | | | |
|----------------------------------|---|----------------------------|---|
| Friday, September 20, 2024 | | | |
| Time | Lobby of Artyzen Habitat Hotel | | |
| 9:00-22:00 | Registration | | |
| 14:00-18:00 | Visiting State Key Scientific Facility (Shanghai) | | |
| Saturday, September 21, 2024 | | Sunday, September 22, 2024 | |
| Time | 2nd Floor General Hall of Artyzen Habitat Hotel | Time | 2nd Floor General Hall of Artyzen Habitat Hotel |
| 8:30-9:00 | Opening Ceremony | | |
| 9:00-9:40 | Plenary Lecture 1 | 9:00-10:20 | Plenary Lectures 5-6 |
| 9:40-10:00 | Group Photos & Break | 10:20-10:40 | Break |
| 10:00-12:00 | Plenary Lecture 2-4 | 10:40-12:00 | Plenary Lectures 7-8 |
| 12:00-13:30 | Break | 12:00-13:30 | Break |
| Time | 1st Floor of Lingang Xinchun International Conference Center, Rooms 1-8 | Time | 1st Floor of Lingang Xinchun International Conference Center, Rooms 1-8 |
| 13:30-15:50 | Keynote Lectures 1-8 & Invited Lectures 1-8 & Oral Lectures Room 1: Thermodynamics & System Integration of Supercritical Power Cycle-1 Room 2: Supercritical Fluid Flow Heat Transfer & Heat Exchanger-1 Room 3: Supercritical Cycle Operation & Control-1 Room 4: Supercritical Fluid Chemical & Materials Technology-1 Room 5: Supercritical Cycle Operation & Control-2 Room 6: Thermodynamics & Heat Transfer of Supercritical Power Cycle-1 Room 7: Supercritical Fluid Flow Heat Transfer & Heat Exchanger-2 Room 8: Supercritical Fluid Thermal Power Conversion & Equipment-1 | 13:30-15:50 | Keynote Lectures 10-19 & Invited Lectures 18-22 & Oral Lectures Room 1: Thermodynamics & System Integration of Supercritical Power Cycle-4 Room 2: Supercritical Fluid Thermal Power Conversion & Equipment-4 Room 3: Supercritical Fluid Flow Heat Transfer & Heat Exchanger-5 Room 4: Null Room 5: Null Room 6: Thermodynamics & System Integration of Supercritical Power Cycle-5 Room 7: Supercritical Composite Fluid Power Cycle Room 8: Supercritical Fluid Chemical & Materials Technology |
| 15:50-16:00 | Coffee Break | 15:50-16:00 | Coffee Break |
| 16:00-17:35 | Keynote Lecture 9 & Invited Lectures 9-17 & Oral Lectures Room 1: Thermodynamics & System Integration of Supercritical Power Cycle-2 Room 2: Supercritical Fluid Flow Heat Transfer & Heat Exchanger-3 Room 3: Supercritical Fluid Thermal Power Conversion & Equipment-2 Room 4: Supercritical Fluid Flow Heat Transfer & Heat Exchanger-4 Room 5: Supercritical Fluid Energy Storage/CCUS Theory and Technology Room 6: Thermodynamics & System Integration of Supercritical Power Cycle-3 Room 7: Multi-Energy Complementary & New Energy Technologies Room 8: Supercritical Fluid Thermal Power Conversion & Equipment-3 | 16:00-17:35 | Keynote Lectures 20-21 & Invited Lectures 23-24 & Oral Lectures Room 1: Supercritical Fluid Flow Heat Transfer & Heat Exchanger-6 Room 2: Supercritical Fluid Flow Heat Transfer & Cycle Control-3 Room 3: Journal Session [Themed Session] Room 4: Null Room 5: Null Room 6: Supercritical Cycle Operation & Control [Themed Session] Room 7: Key Progress of Demonstration Project [Themed Session] Room 8: Key Equipment Manufacturing [Themed Session] |
| 17:35-18:30 | Break | 17:35-18:30 | Break |
| Time | 2nd Floor Luya Hall | Time | 2nd Floor Luya Hall |
| 18:30-21:30 | Themed Keynote Lectures Luya Hall I: Supercritical Pseudo-Phase Transition Theory [Themed Session] Luya Hall II: State Key Scientific Facility (Shanghai) [Themed Session] | 18:30-20:30 | Closing Ceremony |
| Monday, September 23, 2024 | | | |
| Time | Artyzen Habitat Hotel Lobby | | |
| 8:30-10:00 | Visiting State Key Scientific Facility (Shanghai) and leave conference | | |

| Saturday, September 21, 2024 | | | | | | | | |
|---|---|---|--|--|--|--|---|--|
| 2nd Floor General Hall of Artyzen Habitat Hotel | | | | | | | | |
| Time | | | | | | | | |
| 8:00-18:00 | Registration | | | | | | | |
| 8:30-9:00 | Opening Ceremony | | | | | | | |
| 9:00-9:40 | Plenary Lecture 1 (Chair: Walter Ambrosini) Prof. Igor Pioro | | | | | | | |
| 9:40-10:00 | Group Photo & Break | | | | | | | |
| 10:00-10:40 | Plenary Lecture 2 (Chair: Walter Ambrosini) Prof. Hiroshi Yamaguchi | | | | | | | |
| 10:40-11:20 | Plenary Lecture 3 (Chair: Richard Smith) Prof. Ganesan Subbaraman | | | | | | | |
| 11:20-12:00 | Plenary Lecture 4 (Chair: Richard Smith) Prof. Jinliang Xu | | | | | | | |
| 12:00-13:30 | Break | | | | | | | |
| 13:30-17:35 | Keynote Lectures & Invited Lectures & Oral Lectures | | | | | | | |
| | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 |
| | Chairs Yifan Zhang Quanbin Zhao | Chairs Qing Li Hua Tian | Chairs Yuanshen Lu Yujia Zhou | Chairs Haixin Guo Zhiyuan Liang | Chairs Chaohong Guo Juling Yang | Chairs Zhouhang Li Caiyan Qin | Chairs Yuan Zhou Dariusz Mikielewicz | Chairs Jiangfeng Guo Zhen Tian |
| 13:30-14:00 | Keynote 1 Hua Tian | Keynote 2 Hui Jin | Keynote 3 Keyong Cheng | Keynote 4 Weiqing Yang | Keynote 5 Pavel Skripov | Keynote 6 Walter Ambrosini | Keynote 7 Sakir Amiroudine | Keynote 8 Jeong Ik Lee |
| 14:00-14:20 | Invited 1 Enhui Sun | Invited 2 Takaaki Tomai | Invited 3 Youcef Bouaichaoui | Invited 4 Minyi Xu | Invited 5 Deqi Chen | Invited 6 Pan Wu | Invited 7 Ting Ma | Invited 8 Lei Zhang |
| 14:20-14:35 | 9497 | 9507 | 9588 | 9564 | 9520 | 9492 | 9641 | 9589 |
| 14:35-14:50 | 9593 | 9833 | 9487 | 9586 | 9535 | 9485 | 9583 | 9616 |
| 14:50-15:05 | 9524 | 9479 | 9472 | 9558 | 9531 | 9438 | 9513 | 9432 |
| 15:05-15:20 | 9863 | 9903 | 9515 | 9899 | 9597 | 9521 | 9490 | 9575 |
| 15:20-15:35 | 9506 | 9611 | 9921 | 9557 | 9571 | 9916 | 9574 | 9560 |
| 15:35-15:50 | 9576 | 9581 | 9460 | 9862 | 9621 | 9436 | 9437 | 9482 |
| 15:50-16:00 | Break | | | | | | | |
| Time | Chairs Ming Liu Jianhui Qi | Chairs Jiaxiang Chen Zhigang Li | Chairs Juan Du Can Ma | Chairs Bin Liu Youcef Bouaichaoui | Chairs Junbing Xiao Karim Ragui | Chairs Lei Zhang Cheng Xu | Chairs Wentao Du Enhui Sun | Chairs Zhanchao Hu Shiqiang Liang |
| 16:00-16:20 | Invited 9 Ran Tian | Invited 10 Min Xu | Invited 11 Huan Guo | Invited 12 Quanbin Zhao | Invited 13 Dariusz Mikielewicz | Invited 14 Qian Li | Invited 15 Caiyan Qin | Invited 16 Shan Sun |
| 16:20-16:35 | 9592 | 9477 | 9458 | 9563 | 9845 | 9445 | 9859 | 9565 |
| 16:35-16:50 | 9567 | 9464 | 9540 | 9523 | 9455 | 9510 | 9648 | 9467 |
| 16:50-17:05 | 9533 | 9459 | 9494 | 9491 | 9585 | 9605 | 9573 | 9579 |
| 17:05-17:20 | 9526 | 9824 | Keynote 9 Hongliang Ming | 9884 | 9516 | Invited 17 Chaofeng Hou | 9478 | 9587 |
| 17:20-17:35 | 9500 | 9806 | | 9476 | 9602 | | 9456 | 9582 |
| Time | 2nd Floor Luya Hall I | | | | 2nd Floor Luya Hall II | | | |
| 18:30-21:30 | Coordinator | Jinliang Xu, Xiulan Huai | | | Coordinator | Xiang Xu, Bofeng Bai | | |
| | Themed Keynote & Invited | Lecturer: Xinrong Zhang Guihua Tang Ilmutdin Abdulagatov Yuliang Jin (online) Xianliang Lei Panelist: Shuisheng He, Ilmutdin Abdulagatov, Walter Ambrosini, Pavel Skripov, Zhentao Zhang | | | Themed Keynote & Invited | Lecturer: Bo Wang Yong Tian Zhigang Li Zepeng Jiang Weiwei Li Tao Zhu Panelist: Hui Jin, Dedong Hu, Ganesan Subbaraman, Igor Pioro, Jeong IK Lee, Youcef Bouaichaoui, Hiroshi Yamaguchi | | |

| Sunday, September 22nd, 2024 | | | | | | | | |
|------------------------------|---|---|---|--------|--------|--|---|---|
| Time | 2nd Floor General Hall of Artyzen Habitat Hotel | | | | | | | |
| 8:00-18:00 | Registration | | | | | | | |
| 9:00-9:40 | Plenary Lecture 5 (Chair: Igor Pioro) Prof. Yanping Huang | | | | | | | |
| 9:40-10:20 | Plenary Lecture 6 (Chair: Igor Pioro) Prof. Hongzhi Li | | | | | | | |
| 10:20-10:40 | Break | | | | | | | |
| 10:40-11:20 | Plenary Lecture 7 (Chair: Bofeng Bai) Prof. Daniel Beysens | | | | | | | |
| 11:20-12:00 | Plenary Lecture 8 (Chair: Bofeng Bai) Prof. Lin Chen | | | | | | | |
| 12:00-13:30 | Break | | | | | | | |
| Time | Keynote Lectures & Invited Lectures & Oral Lectures | | | | | | | |
| | Room 1 Chairs Xianliang Lei Zhenjun Xu | Room 2 Chairs Sakir Amiroudine Deqi Chen | Room 3 Chairs Yuhiro Iwamoto Qian Li | Room 4 | Room 5 | Room 6 Chairs Min Xu Huan Guo | Room 7 Chairs Yu Yang Ran Tian | Room 8 Chair Takaaki Tomai Haisong Zhang |
| 13:30-14:00 | Keynote 10 Atsuki Komiya | Keynote 11 Shuisheng He | Keynote 12 Dedong Hu | | | Keynote 13 Yuanshen Lu | Keynote 14 Zhiyuan Liang | Honored Keynote 15 Richard Smith |
| 14:00-14:20 | Invited 18 Haixin Guo | Invited 19 Chaohong Guo | Invited 20 Yongchang Feng | | | Invited 21 Yuan Zhou | Invited 22 Zhouhang Li | Invited 23 Karim Ragui |
| 14:20-14:35 | 9600 | 9484 | 9598 | | | 9470 | 9596 | 9473 |
| 14:35-14:50 | 9570 | 9475 | 9904 | | | 9550 | 9518 | 9452 |
| 14:50-15:05 | 9488 | 9880 | 9591 | | | 9527 | 9486 | 9577 |
| 15:05-15:20 | 9599 | 9468 | 9504 | | | 9847 | 9610 | 9528 |
| 15:20-15:35 | Keynote 16 Jian Xie | Keynote 17 Ilmutdin Abdulagatov | Keynote 18 Jiangfeng Guo | | | 9601 | 9594 | 9604 |
| 15:35-15:50 | | | | | | | | |
| 15:50-16:00 | Break | | | | | | | |
| Time | Chairs Bingguo Zhu Pan Wu | Chairs Yongchang Feng Rui Zhang | Coordinator Lin Chen Jian Xie | | | Coordinator Bofeng Bai, Bo Wang, Yujia Zhou, Yuyan Jiang (16:00-18:00) Themed Keynote & Invited Shigenao Maruyama Bofeng Bai Yifan Zhang Jun Li Shiliang Liang Jin He | Coordinator Wengang Bai Shaozeng Sun (16:00-18:00) Themed Keynote & Invited Shaozeng Sun Long Jiang Cheng Xu Yifan Zhang | Coordinator Yongxian Guo Keyong Cheng, Yu Yang (16:00-18:00) Themed Invited Xin Bao Rui Yang Lejun He Hao Zhang Wengang Bai Yu Yang |
| 16:00-16:30 | Keynote 19 Zhentao Zhang | Keynote 20 Dipankar Basu (online) | Journal Session Alan J. Giacomini (PoF) Igor Pioro (JNERS) Richard Smith (JSF) Carla Gao (Elsevier) Na Zhang (JTS) Gongnan Xie (IJHFF-Online) | | | | | |
| 16:30-16:50 | Invited 24 Zhanchao Hu | Invited 25 Yuki Kanda(online) | | | | | | |
| 16:50-17:05 | 9580 | Basu (student) | | | | | | |
| 17:05-17:20 | 9444 | 9539 | | | | | | |
| 17:20-17:35 | 9515 | 9603/9609/9439 | | | | | | |
| 09:00-18:00 | Poster Session @ 2nd Floor Gallery Space Between General Hall & Luya Hall: 9471, 9545, 9848, 9461, 9590, 9502, 9480, 9511, 9861, 9483 | | | | | | | |
| Time | 2nd Floor Luya Hall | | | | | | | |
| 18:30-20:30 | Closing Ceremony | | | | | | | |

| Monday, September 23rd, 2024 | |
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| Time | Artyzen Habitat Hotel Lobby |
| 8:30-10:00 | Visiting State Key Scientific Facility (Shanghai) and leave conference |