

**2017 CAFOE
Poster Titles**

| Poster Number | First Name | Last Name | Poster Title |
|----------------------|-------------------|------------------|--|
| 1 | Samuel | Au | High Performance Flexible Robotic System |
| 2 | Veronica | Augustyn | Electrochemical Energy Storage with Hydrated & Layered Oxides: Bringing the Electrolyte Inside the Electrode |
| 3 | Timothy | Bretl | Robotics in Construction: Autonomous Vision-Based Project Monitoring |
| 4 | Candace | Chan | Electrospinning of Nanostructured Li7La3Zr2O12 Solid Electrolytes and its Particle Size-Dependent Phase Transformation |
| 5 | Yongchong | Chen | Develop low-cost & renewable Lithium slurry battery for energy storage application |
| 6 | Jie | Cheng | Newly Battery Systems Based on Zinc Anode |
| 7 | Christian | Claudel | Inertial Measurement Unit-based traffic flow monitoring |
| 8 | Anne | Co | Revealing Chemical Processes During (De)Lithiation Using Operando Neutron and NMR Methods |
| 9 | Junbiao | Dai | Synthesis of a genome: to understand life |
| 10 | Sammy | Datwani | Microfluidics without Borders – Acoustic Droplet Ejection Technology and Applications |
| 11 | Craig | Duvall | Precision Polymer Architectures and Molecular Conjugates to Enable Therapeutics Against Undruggable Targets |
| 12 | Waleed | Farahat | Actuation, Sensing and Control in Collaborative Robots |
| 13 | Gabrielle | Gaustad | Life-cycles of lithium ion batteries: Understanding impacts from extraction to end-of-life |
| 14 | Helen | Huang | Neuromuscular Rehabilitation Engineering Laboratory |
| 15 | Yixin | Huo | Proprietary Metabolic Engineering Platforms |
| 16 | Ross | Knepper | Implicit Communication: Natural Data Compression for Collaboration |
| 17 | Bing-Zhi | Li | Designer Genome |
| 18 | Shengbo | Li | On-going Research Topics |
| 19 | Li | Li | Parallel Learning Theory and Its Applications in Automated Vehicles |
| 20 | Xiangjun | Li | Innovative Energy Storage Technology and Its Impact on Future Life |
| 21 | Helen | Liu | A Novel Reference Cell Design |
| 22 | Wanjing | Ma | Optimal Control of Urban Traffic Intersections with Connected and Automated Vehicles |
| 23 | Hussam | Mahmoud | Quantifying Community Risk to Wildfires |
| 24 | Haipeng | Mi | Pebbles and FINCH: Designing User-Friendly Interface for Home Robots |
| 25 | Scott | Moura | Unlocking Battery Potential: Electrochemical Model-based Control & Estimation |
| 26 | Rachael | Nealer | Technology Trends Shaping Mobility |
| 27 | Leonard | Pease | Turbulent Jet Multicomponent Mixing and Erosion |

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| 28 | Pierre Ferdinand | Poudeu | Earth-abundant photovoltaic material with ultra-large absorption coefficient |
| 29 | Warren | Ruder | Enabling New Discoveries and Technologies by Combining Synthetic Biology with Biomimetic Systems |
| 30 | Peiliang | She | The Research & Application of Lead Carbon Battery in Energy Storage Industry |
| 31 | Hao | Song | Multi-scale Rewiring extracellular electron transfer pathways |
| 32 | Robert | Steward Jr | Cellular Biomechanics in Human Health and Disease |
| 33 | Dangxiao | Wang | Haptic Human-Machine Interaction: From Motor Skill Training to Cognitive Skill Training |
| 34 | Yafei | Wang | Data Processing for Automotive Applications |
| 35 | Dawn | Woodard | Predicting Travel Time Reliability |
| 36 | Dan | Work | Dissipation of stop-and-go waves via control of autonomous vehicles |
| 37 | Chi | Xie | Development of Supply Infrastructures for Electric Vehicles: Challenges and Opportunities |
| 38 | Zhen | Xie | Programmable synthetic gene circuit as a potential therapeutic intervention for liver cancer |
| 39 | Lu | Xiong | Integrated Vehicle Management and Control System |
| 40 | Chao | Xu | Intelligent Robotic Locomotion |
| 41 | Yingke | Xu | Synthetic insulin signaling using optogenetics and dissecting PI3K and Akt in adipocyte insulin action |
| 42 | Ronggui | Yang | A Film that Cools without Consuming Electricity |
| 43 | Song | Yang | Engineering Bacteria |
| 44 | Haifeng | Ye | Smartphone-controlled Optogenetic Designer Cells for Diabetes Therapy |
| 45 | Lingchong | You | Reversing costly resistance theory |
| 46 | Junzhi | Yu | Robotic Fish |
| 47 | Ningbo | Yu | Patient-Tailored Assessment-Driven Robotic Rehabilitation |
| 48 | Xin | Yuan | Computational Photography: From Lensless Camera to Virtual Reality |
| 49 | Hong | Zeng | Research on Human-Robot Interaction in the Robot Sensing and Control Technology Laboratory of Southeast University |
| 50 | Yanli | Zhu | Battery safety: Analysis on combustion- and explosion-induced hazards of Li-ion battery cell by overcharge |
| 51 | Alexandre | Bayen | Crowdsourcing |