

NSF EPSCoR Research Infrastructure Improvement (RII) Award 2021 LAMDA Symposium

August 6, 2021

Zoom:

<https://us02web.zoom.us/j/89356525684?pwd=K3JvTVIYLT1BINWJyTWEzaHA3N0dmZz09>

Agenda

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| 8:15 – 8:30 | Overview of the EPSCoR RII project (Michael Khonsari) |
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| 8:30 – 10:30 | Session 1: Project Progress Report* Session Chair: Phillip Sprunger |
| 8:30 – 8:50 | Overview of LAMDA SD-1 research: Complex Concentrated Alloys (CCAs) with balanced mechanical performance. (Shengmin Guo) |
| 8:50 – 9:10 | Overview of LAMDA SD-2 research: AM-compatible Thermoset Shape Memory Polymers (TSMPs) with enhanced service life. (Guoqiang Li) |
| 9:10 – 9:20 | Current status in the development of the LAMDA Core User Facilities (Wenjin Meng / Xiaodong Zhou) |
| 9:20 – 9:30 | LAMDA Industry Partnerships (Andrew Mallow / Dimitris Nikitopoulos) |
| 9:30 – 9:55 | LAMDA WFDD efforts (Kristen S Williams) |
| 9:55 – 10:00 | LAMDA seed grants (Ramu Ramachandran) |
| 10:00 – 10:10 | Graduate Student Retreat/Meeting (Saber Nemati / Congyuan Zeng / Rifat-E-Nur Hossain / Mohammad Khairul Habib Pulok) |
| 10:10-10:30 | External Evaluation Report (Cindi Dunn) |
| 10:30 – 10:45 | Break |

***Presentation times include 5 min for Q&A**

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| 10:45 – 11:45 | Session 2: SD-1 Technical Presentations* Session Chair: Shengmin Guo |
| 10:45 – 11:05 | Wick-SChen (LaTech)/ Hamm (TU) / Raush (ULL)/ Meng (LSU): SD1 -Complex concentrated alloys (CCAs)- A progress report (Multiscale DFT/MD/MC/Calphad calculations, ML, and testing) |
| 11:05 – 11:20 | Xin Li/Butler (LSU): Three, four, and five-dimensional microstructural characterizations and reconstruction |
| 11:20 – 11:30 | Raush (ULL): Digital image correlation (DIC) system |
| 11:30 – 11:45 | Arden Moore (LaTech): In-situ Infrared Temperature Sensing for Real-Time Defect Detection in Additive Manufacturing |

***Presentation times include 5 min for Q&A**

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| 11:45 – 12:15 | Lunch break |
| 12:15 – 2:10 | Student presentations (judged by ERB): 16 Presentations (each 5 min + 2 min Q&A) Session Chair: Saber Nemati |

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| 2:10 – 3:10 | Session 3: SD-2 Technical Presentations* Session Chair: Guoqiang Li |
| 2:10 – 2:25 | Collin Wick (LaTech)/Andrew Peters (LaTech)/Guoqiang Li (SU/LSU): Molecular dynamics simulation of high enthalpy storage thermoset shape memory polymers |
| 2:25 – 2:40 | John Pojman (LSU): Thermoset shape memory polymer synthesized with frontal polymerization |
| 2:40 – 2:55 | Samuel Ibekwe (SU)/Patrick Mensah (SU)/Guoqiang Li (SU/LSU): SMA z-pinned glass fiber reinforced shape memory vitrimer composite laminate for impact mitigation and delamination healing |
| 2:55 – 3:10 | William Chirdon/Ahmed Khattab (ULL): Weathering Performance of Thermoplastics and Shape-Memory Thermosets |

***Presentation times include 5 min for Q&A**

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| 3:10 – 3:25 | Break |
| 3:25 – 4:10 | Discussions of ERB and IAB(Separate breakout rooms) |
| 4:10 – 4:25 | Feedback from the ERB and IAB and student presentation awards Session Chair: Michael Khonsari |
| 4:25 – 4:40 | Concluding Remarks (Michael Khonsari) |

Last updated July 28, 2021