NanoScience Technology Center

Industrial Affiliates Symposium

Thursday, August 15

Reception

Location: NanoScience Technology Center (Research Pavilion-Suite 400)

Poster Session, Research Pavilion Lab Tours & Exhibits 5.00 PM-7.30PM

Dinner (Invited guests)

Friday, August 16

Location: Research 1 (Suite 101)

Registration and continental breakfast (7.45AM - 8.25AM)

OPENING SESSION (8.30AM – 9.10AM)

8.30AM – 8.40AM:	Welcoming remarks	Liz Klonoff, UCF VP for Research, Dean of Graduate Studies	
8.40AM- 8.50AM:	NSTC Overview	Lei Zhai	Director, NSTC
8.50AM-9.00AM:	Goal of NIA	Jayan Thomas	Symposium chair
9.00AM- 9.10AM:	Technology transfer	Svetlana Shtrom	Director, Technology Commercialization

TECHNICAL SYMPOSIUM

Session 1: Talks by invited speakers (9.10AM – 10.35AM)

9.10AM-9.30AM:	Jeff Bullington, CTO, Garmor

	"Industrial Commercialization of Graphene Oxide"
9.30AM-9.50AM:	Georg von Freymann AG Optische Technologien und Photonik, Germany "3D µ-Printing: An Enabling Technology"
9.50AM-10.10AM:	Jason Eichenholz, Co-founder and CTO Luminar Technology "Building the Vision for Autonomous Mobility"
10.10AM-10.35AM:	Dr. Jose Nunez, Chief, Flight Technology Branch, Exploration Research and Technology Programs Office, NASA KSC.

Dr. Nunez presentation:

- A three minute YouTube video – We are Going – Provides a quick top level overview of going to the Moon
- A 10 minute presentation – Artemis Program (NASA's new Program on going to the Moon)
- A 10 minute presentation – KSC's Research Organization, who we are and what we do

Photo session and coffee break (10.35AM-11.00AM)

Session 2: NSTC faculty technical talks- 6 minutes each (11AM – 12.30PM)

1. Debashis Chanda - Turning One Atomic Layer Thick Material into a "Color" Night Vision Camera

2. Lei Zhai - Polymer Nanocomposites

3. Yajie Dong - Luminescent Nanomaterials and Devices

4. Swaminathan Rajaraman - Makerspace Micro/Nanofabrication Technologies for Biomedical and Agricultural Applications

5. Swadeshmukul Santra: Zinkicide^{TM} nanotechnology for crop protection

6. Tania Roy -Electronic devices for artificial intelligence

7. Yang Yang - Advanced Manufacturing of Nanosctuctured Thin-Film Materials for Renewable Energy Devices

8. Arkadiy Lyakh - High Performance Quantum Cascade Lasers

9. Laurene –

10. Akihiro Kushima - In-situ transmission electron microscopy to probe electrochemical and mechanical properties of materials at nano-scale

11. Jayan Thomas – Fibers and ribbons for wearable energy harvesting and storage devices

12. Nadine (J. Hickman) - Development of human body-on-a-chip system for efficient translational study and missions of Hybrid System Laboratory

13. Jihua 'Jan' Gou - Science and Technology of Buckypapers and Their Composites

14. Masahiro Ishigami - "Advanced prototype and characterization of nanoelectronics devices"

Lunch: 12.30PM- 1.30PM

Session 3: Short presentations from industrial affiliates - 8minutes each (1.30PM-3.00 PM)

1. Dr Aina Olaleye - Ball Aerospace: Sensor payload and Geiger-mode Lidar Camera technology

2. Dr. Debasish Banerjee - Toyota Corporation: Lexus Structural Blue-world's first structural color based car

3. Dr. Gautam Parthasarathy - GE Global Research: GE $K_2SiF_6:Mn_4^+$ (PFS/KSF) Phosphor: Market Leading Wide Color Gamut Technology & Path Towards Enabling Next Generation Displays.

4. Mr. Joe Sleppy – Capacitech Energy LLC: Building a Capacitech Enabled Future

5. Dr. Binh Duong – Urbix: Advanced graphite refining technology

6. Dr. Isaiah Oladeji – Sisom - Water based chemistry for the fabrication of energy harvesting and energy storage devices

7. Salvatore J. Monte- Kenrich Petrochemicals, Inc: The Application of 1.5-Nanometer Heteroatom Titanates and Zirconates

8. Christopher Long- Hesperos: Human 0n a Chip systems for Drug Screening and Toxicity Evaluations

9. Alex Oliferenko- EigenChem Technologies Inc.:

10. Bert Gyselinckx – IMEC: imec and UCF: partners in research

Coffee break (3.00PM-3.15PM)

Session 4: Breakout session/Panel discussion (3.15PM-4.00PM)

Lead – Dr. Lei Zhai

Symposium adjourns