

Program GE X-ray Forum State College / Lewistown 2016

HOTEL Location
 The Penn Stater Conference Center Hotel
 215 Innovation Boulevard, State College, PA 16803
 Phone:(814) 863-5000
 GE helpline during the event: 717-262-3133

| Monday, May 16, 2016 | | GE Staff | | |
|-----------------------|---|---|-------------------------|---|
| 5pm to 8pm | Registration open - Penn Stater Hotel Lobby | Neil Bloomfield; Toni Compston-Wells; John Prendergast | | |
| Tuesday, May 17, 2016 | | Speaker | Parallel Tutorial | Tutorial trainer |
| 8:00 a.m. | Registration open, welcome breakfast | | | |
| 8.15am | Speaker Meeting on stage (Tuesday speakers only) | Neil Bloomfield; John Prendergast | | |
| 9:00 a.m. | Opening | Neil Bloomfield - Global Product Sales Leader, Radiography Systems, GE Inspection Technologies | | |
| 9:05 a.m. | Welcome | AJ Boechler - Global Sales Leader, GE Inspection Technologies; Jeff Fortin - Associate Vice President for Research, Penn State University | | |
| 9:20 a.m. | Key Note Speaker - Making the Conversion to Digital | John Ellegood, retired Lockheed Martin Space Systems; Independent consultant providing Level 3 Radiography services (Film, CR, DR and CT) | | |
| | X-ray and CT technology updates | | | |
| 10:00 a.m. | Advances in CT and Metrology Inspection | Philipp Bartscht - Product Manager, Radiography, GE Inspection Technologies | | |
| 10:30 - 11:00 a.m. | <i>Coffee break</i> | | | |
| 11:00 a.m. | Advances in 2D and Field Radiography | Shana Telesz - Senior Product Manager, Radiography, GE Inspection Technologies | | |
| | Digital 2D and 3D component / castings inspection | | | |
| 11:30 a.m. | Steps to Implementing Digital X-ray - An Aerospace Casting Supplier's Timeline | Justin Byers, Digital Radiography Lead, Magellan Aerospace, Haley | CR/DR - Tips and Tricks | Richard Mills and Tina Bowden, GE Inspection Technologies |
| 12:00 | Analysis Techniques for Volumetric Computed Tomography Inspection of Turbine Airfoils | Pat Howard - Consulting Engineer - Nondestructive Testing, GE Aviation | | |
| 12:30- 1:30 p.m. | <i>Lunch</i> | | | <i>Lunch</i> |

| Tuesday, May 17, 2016 | | Speaker | Parallel Tutorial | Tutorial trainer |
|-----------------------|--|---|---|---|
| 12:30- 1:30 p.m. | <i>Lunch</i> | | | <i>Lunch</i> |
| 1.30pm | Non-destructive Evaluation of Ford Automotive Composites Using X-ray Computed Tomography | Haibo Zhao - Research Engineer, Ford Motor Company | 3D X-ray Vision: Seeing the Inner Space of Biomaterials Using X-ray Computed Tomography | Dr Craig J Sturrock, Senior Research Fellow, School of Biosciences, University of Nottingham, England |
| 2.00pm | GE Aviation NDE and The Revolution in Ceramic Matrix Composites | Don Roth - Staff Engineer/Technologist - Xray CT, Digital Radiography, Automation, & Image Processing and Analysis, GE Aviation | | |
| | Industrial X-ray Enabling Technologies | | | |
| 2.30pm | From CT to Numbers: Understanding Your Data | Patrick Barthelemy - Product Marketing Director, Industrial Inspection, FEI Visualization Sciences Group | | |
| 3:00 - 3:30 a.m. | <i>Coffee break</i> | | | |
| 3:30 p.m. | High resolution displays - seeing what matters! | Brian Cote - Product Manager, Eizo Inc | Using Micro-CT Scanning to Investigate the State of Pteropods in the Modern Ocean | Rosie Oakes, PhD Student, Penn State University |
| 4.00pm | Digital Storage- Concerns and Considerations | Joe Hewes - Account Manager, EMC Corp. | | |
| 4.30pm | The Romance between Voxel Data and Metrology | Roger Wende, North American Manager, Volume Graphics, Inc | | |
| 5:00 p.m. | Closing remarks | John Prendergast - Technology Solutions Centers Leader, GE Inspection Technologies | | |
| 5:15 p.m. | Group picture in front of the Hotel | | | |
| 6:00 p.m. | Meeting in hotel lobby for bus shuttle service | | | |
| 6.30 p.m. | Evening Program: The American Ale House, State College | | | |
| 9.30 p.m. | End (Return shuttles will be available from 9pm until 10pm) | | | |

| Wednesday, May 18, 2016 | | Speaker | Parallel Tutorial | Tutorial trainer |
|--|--|--|---|---|
| 8.15am | Speaker meeting on stage (Wednesday speakers only) | Neil Bloomfield; John Prendergast | | |
| 9:00 a.m. | Introduction of Philip Doms, GM Radiography and Ultrasound Systems and Frank van Dijk, GM NDT Film & Field Radiography | John Prendergast - Technology Solutions Centers Leader, GE Inspection Technologies | | |
| Additive Manufacturing Inspection/Session in collaboration with the Penn State University | | | | |
| 9:05 a.m. | Additive Manufacturing of Metals: Past, Present and Exciting Future | Edward Herderick - Additive Technologies Leader, Advanced Manufacturing Initiatives Group, GE Corporate | | |
| 9:30 a.m. | Computed Tomography as an Enabling Technology for Additive Manufacturing | Dr. Todd Palmer, Senior Research Associate, Applied Research Laboratory, and Associate Professor of Materials Science & Engineering, Pennsylvania State University | | |
| 10:00 a.m. | Defect Detection and Analysis for Metal Additive Manufacturing Through Industrial High-Resolution Micro-Computerized Tomography | Dr. Mohsen Siefi - Post Doctoral Research Associate, Case Western Reserve University | | |
| 10:30 - 11:00 a.m. <i>Coffee break</i> | | | | |
| 11:00 a.m. | Development of a Technique for Optimizing Digital Radiography for Inspection of Large Components Produced by Additive Mfg. | Mr. Griffin Jones, Research Engineer, Applied Research Laboratory, Pennsylvania State University | Analysis of Cultural Heritage Objects Using Radiographic & Spectroscopic Techniques | Prof. Richard Hark, Professor, Department of Chemistry, Juniata College |
| 11:30 a.m. | Design Challenges & Opportunities in Additive Manufacturing of Metallic Materials: Lessons Learned in the Center for Innovative Materials Processing through Direct Digital Deposition (CIMP-3D) | Dr. Tim Simpson, Co-Director CIMP-3D and Professor of Mechanical Engineering, Pennsylvania State University | | |
| 12:00 | Radiation Safety State Regulatory Requirements for the Registration and Use of Industrial and Analytical X-ray Equipment | Sean Chapel, President, IRSC, Inc. | | |
| 12:30- 1:20 p.m. <i>Lunch</i> | | | | |

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|---|--|--|---|--|
| 12:30- 1:20 p.m. <i>Lunch</i> | | | | |
| X-ray Applications in scientific research/academia | | | | |
| 1:20 p.m. | Imaging plant roots in soil | Dr Craig J Sturrock, Senior Research Fellow, School of Biosciences, University of Nottingham, England | Advances in GE Digital Detector Array (DDA) Technology | Jingyi Liang - Senior Development Engineer, GE Healthcare |
| 1:50 p.m. | Thinking Inside the Box: Micro CT and Jamestown's Hidden Past | Dave Givens - Senior Staff Archaeologist/Michael Lavin - Senior Staff Conservator, Preservation Virginia | | |
| 2.20pm | Nanofocus computed tomography applications in an academic setting | Erin Bigelow - Research Lab Specialist, University of Michigan | | |
| 2.40pm | Quantitative Analysis of the Lung Airways Using High Resolution Computed Tomography | Bino Varghese - Imaging Specialist, University of Southern California | | |
| 3:00 - 3:20 p.m. <i>Coffee break</i> | | | | |
| 3:20 p.m. | Non-Destructive Testing at Museums | Morgan Hill - Laboratory Co-manager and Technician, American Museum of Natural History, New York | Remote Monitoring and Diagnostics (RM&D) - Focus group participants sought! Our path to increased machine productivity - we need your help. | Melissa Stancato - Field Availability Senior Product Manager, GE Inspection Technologies |
| 3:40 p.m. | Unlocking the full potential of natural history museum collections with Computed Tomography. | Ed Stanley, University of Florida | | |
| Industrial X-ray solutions for Field applications | | | | |
| 4:00 p.m. | Non-intrusive Inspection of Dead Tanks/Live Tank High Voltage Breakers | Jerry Michaelson, Global Product Technology Manager-Radiography, High Voltage Service, ABB Inc. | | |
| 4.30pm | Queen Anne's Revenge - Field DR application with cobalt source | Hank Rowe - North East Technical Sales Manager, Newco | | |
| 5.00pm | Closing remarks | Neil Bloomfield - Global Product Sales Leader, Radiography Systems, GE Inspection Technologies | | |
| Evening Event Program | | | | |
| 6:00 p.m. | Deans Hall 1 and 2 - Buffet Dinner and Tours of Penn' State's Center for Innovative Material Process through Direct Digital Deposition (CIMP 3D) facility. | | | |
| 9:00 p.m. | End | | | |

Thursday, May 14, 2015

Trainer

- 7:15 a.m. **Departure Bus shuttle Hotel - GE Lewistown site**
[GE Lewistown Site and CSC Tour](#)
- 8:15 a.m. **Welcome, general Lewistown/plant/EHS information**

- See separate page for Workshop Schedule**
- 5:00 p.m. **End**

