September 18 – Remanufacturing Short Courses

9 am – 12 pm  Determining the Environmental Benefits of Remanufacturing
(RIT Campus - Golisano Institute for Sustainability)

1:30 pm – 5 pm  Improving the Remanufacturing Bottom Line with Additive Manufacturing
(RIT Campus - Golisano Institute for Sustainability)

September 19/Day One – RIT Inn & Conference Center

8:00 am  Registration & Continental Breakfast

8:30 am  Welcome from the World Remanufacturing Summit – Dr. Nabil Nasr, Associate Provost and Director, RIT Golisano Institute for Sustainability

8:40 am  Welcome from Remanufacturing Industries Council – John Disharoon, Chairman, Remanufacturing Industries Council

8:45 am  Welcome from RIT President – Dr. David Munson

8:55 am  Introduction to Keynote Speaker – Dr. David Munson, President, RIT

9:00 am  Tana Utley, Vice President, Caterpillar Inc.
Find Your Customer
Remarks will focus on the importance of understanding your business’s unique value proposition, and that of your customers, and pursuing your “right to win” for the benefit of both. She will call upon the remanufacturing community as a whole to continue working together to create a global business environment in which each of us has the ability to pursue our right to win in the industries we serve.

9:40 am  Executive Forum. The Executive Forum is a moderated panel discussion with five senior reman industry professionals designed to provide insights and thought leadership in the context of the globalization of remanufacturing products and services around the world. The Forum will cover Global Industry Outlook, Trade, Innovation & Technology, Workforce Development, and Sustainability.

- Don Olson, Head of Special Customer Operations, Nokia
- Anita Barlow, Managing Director, Reman Americas / Diesel NA, Delphi Technologies
- Robert Paternoga, General Manager, Caterpillar Inc.
- Vaughn Henson, General Manager, SRC Logistics Inc.
- (Moderator) John Disharoon, Director of Market Access, Caterpillar Inc.

10:45 am  Break

11:00 am  The REMADE Institute Technology Roadmap. The technology roadmap pinpoints key priorities, strategies and focused research and development efforts for the Institute. Learn from the senior leadership of the Institute what is planned, how research areas will be explored, and innovation priorities for specific technologies, processes, and approaches critical to advancing remanufacturing in America.

- Nabil Nasr, CEO, REMADE Institute
- Magdi Azer, CTO, REMADE Institute
- Mike Thurston, Reman Technical Node Leader, REMADE Institute
- Mike Haselkorn, Reman Deputy Technical Node Leader, REMADE Institute
12:00 pm
State of Remanufacturing (Lunch Session). A prestigious panel of international remanufacturing experts provides national highlights for the reman industry in each of their home countries in the areas of recent industry/sector growth, new initiatives (industry, policy, or regulation), challenges, and outlook for 2019 and beyond.

- Nabil Nasr, Associate Provost and Director, RIT Golisano Institute for Sustainability (USA)
- Joseph Chow, Chairman, Automotive Parts Remanufacturing Association/Asia Pacific (China)
- Helene Pepin, Senior Group Manager, Advanced Remanufacturing, Advanced Remanufacturing and Technology Center (Singapore)
- Erik Sundin, Associate Professor, Linköping University (Europe)
- Yong-Sung Jun, Korea Institute of Industrial Technology (Korea)

2:00 pm
Andrew Morlet, CEO, Ellen MacArthur Foundation, Accelerating the Transition to a Circular Economy
Established in 2000 by former round-the-world yachtswoman, Dame Ellen MacArthur, the Foundation aims to deepen the understanding of major corporations about the concept of the “circular economy” or “CE”, and thereby to change their behavior. Remarks will outline the Ellen MacArthur Foundation’s aim to accelerate the transition to a circular economy.

2:45 pm
Break

3:00 pm Concurrent Technical Tracks – Session 1

**Track 1 - Reman Business Challenges & Opportunities**
The success of a remanufacturing business model is not only achieved by overcoming technological, core supply and cost/resource challenges, but also through improvements in customer satisfaction, sustainability/circular strategies, intellectual property, and brand/image. Attendees will learn about new approaches, research and lessons learned when differentiating remanufacturing products from the competition.

- Mike Thurston, Research Faculty/Technical Director, RIT Golisano Institute for Sustainability (Session Chair/Moderator)
- David Schofman, CEO, PureWRX Linking OEM Support to Remanufacturing
- Adam Morrison, Induction Heating Products Manager, Ajax TOCCO Magnethermic Corporation Improved ROI through electromagnetic induction heating process
- Don Olson, General Manager Nokia Circular Supply Chain, Nokia Challenges and Opportunities of Expanding Nokia’s Circular Product Portfolio.

**Track 2 - Reman Process Improvement**
Reman business and research leaders will share the latest quality management trends and lessons learned in implementing reman process improvement strategies to reduce costs, lower waste, and increase profit margins.

- Sebastian Schötz, Manufacturing and Remanufacturing Technology at the University of Bayreuth and Fraunhofer IPA (Germany) (Session Chair/Moderator)
- Sebastian Schötz, Manufacturing and Remanufacturing Technology at the University of Bayreuth and Fraunhofer IPA (Germany) Quality Management in Remanufacturing
- Yong-Sung Jun (Korea), Korea Institute of Industrial Technology Introduction of quality certification system for remanufactured products in South Korea
- Mike White, Director of Operations, SRC Logistics Inc. Condition Assessment/Inspection
- Dr. SHI Piejing, Associate Professor & Deputy Director Remanufacturing Institute, Chinese Mechanical Engineering Society (China) The innovation of remanufacturing technology and industry in China

**Track 3 - Circular Economy & Reman**
The prospect of the circular economy is attractive from a macro-economic perspective, but on an individual company level companies still need a solid business case, in addition to the environmental benefits they can achieve. This session will highlight best practices and decision and external support tools to help evaluate a circular business model.

- Peggy Zwolinski, Professor, Grenoble INP - Institut Polytechnique de Grenoble (France) (Session Chair/Moderator)
- Peggy Zwolinski, Professor, Grenoble INP - Institut Polytechnique de Grenoble (France)
- Wendi Latko, Vice President, EHS, Xerox
- Chris Cloutier, Director of Sustainability, CoreCentric Solutions Lessons Hard Won: How Reman Industry Can Help Inform the Circular Economy

4:30 pm
Optional Tours of Golisano Institute for Sustainability (45 minutes). Transportation begins leaving for the DoubleTree Hotel or RIT/GIS for those taking the tour

5:30 pm
Transportation begins from RIT/GIS to the DoubleTree Hotel

5:30 pm
Networking Reception at the DoubleTree Hotel

6:30 pm
RIC ACE Awards presentation followed by Networking Dinner
Panel Discussion: The Reman Association Alliance: Generating Awareness and Opportunity Through Collaboration. Through collaboration we can accomplish great things. During this panel discussion, experts from various industry associations will talk about what it takes to put on a successful Reman Day, advocate in the market and collaborate to create a common understanding of our industry.

- Jena Holtberg-Benge, General Manager, John Deere Reman (Moderator)
- Joe Kripli, President and Chairman, Automotive Parts Remanufacturing Association
- Tricia Judge, International Imaging Technology Council
- Bill Davies, Immediate Past Chair, Remanufacturing Industries Council

Reman Standards. With an American National Standard for remanufacturing in place, RIC explored working toward an international standard for remanufacturing. The ISO process is complicated and requires dedicated experts to gain approval from a technical body and achieve consensus with a broad range of stakeholders. While RIC received constructive feedback from our preliminary effort to advance the ANSI standard to the ISO, several sector specific concerns need to be overcome. This working session will open the topic up to the audience for a frank discussion on whether an international standard for remanufacturing is desired, and if so, how to strengthen the ANSI standard to rekindle the work.

- John Disharoon, Director of Market Access, Caterpillar Inc.

Remanufacturing offers great opportunities to contribute significantly to the economies of both developed and developing countries. This session will highlight the state of regional efforts to facilitate the development of reman production and supply chains and seamless trade, and how such efforts are addressing issues such as non-tariff barriers (e.g.) import bans, higher tariffs and fees, stringent regulation, certification and inspection requirements.

- John Disharoon, Director of Market Access, Caterpillar Inc. (Session Chair/Moderator)
- Nabil Nasr, Associate Provost and Director of GIS, Rochester Institute of Technology
- Michael Schmit, Director, Remanufacturing Technology, GE Healthcare
- Donald Chenevert, Jr., Deputy General Counsel, SRC Holdings Corporation

Electronics remanufacturing has a variety of unique technical challenges that continue to become more complex, requiring more knowledge and technical education for the reman industry. This session will highlight innovative approaches to developing a successful electronics remanufacturing program.

- Mike Thurston, Research Faculty/Technical Director, RIT Golisano Institute for Sustainability (Session Chair/Moderator)
- Bob German, Business Development Manager, Flight Systems Automotive Group
- Rafał Słobodzian, Lead Engineer, WABCO Reman (Stanowice, Poland)
- Nenad Nedadic, Research Associate Professor, RIT Golisano Institute for Sustainability

Additive manufacturing (AM) technologies have long been used in remanufacturing, but with the explosion of 3D printing technologies, new AM processes are rapidly hitting the market. This session will feature the various AM processes available for reman applications highlighting technical characteristics and economic factors.

- Helene Pepin, Senior Group Manager, Advanced Remanufacturing, ARTC (Singapore) (Session Chair/Moderator)
- Helene Pepin, Senior Group Manager, Advanced Remanufacturing, ARTC (Singapore) Cold Spray
- Tom Cobbs, Lens Product Manager / Ken Vartanian, VP Marketing, Optomec DED Additive - An effective Technology to Restore and Remanufacture an Expanded Range of Metal Legacy Components
- Arun Chowdry, VP of Technology and Materials, Evolve Additive Integrating AM into the Manufacturing floor alongside Injection Molding
### Concurrent Technical Tracks - Session 3

**Track 1 - Design for Reman**

The key to profitable remanufacturing strategies is an understanding of the properties of products easy to remanufacture. This session will highlight considerations and case studies where remanufacturing requirements were addressed through the design phase so that end-of-life products can be disassembled, cleaned, tested and reassembled with ease and profitability.

- **Erik Sundin, Assoc. Professor, Linköping University (Sweden)** (Session Chair/Moderator)
- **Erik Sundin, Assoc. Prof., Linköping University (Sweden)** Linking Business Models to Design for Remanufacturing
- **Mike Haselkorn, Senior Research Faculty, RIT Golisano Institute for Sustainability** Innovation-Based Design
- **Tom Bauer, PhD Candidate, G-SCOP, Grenoble Laboratory for Science for Design, Optimization and Production (France)**

**Track 2 - Emerging Technologies in Reman**

Industry 4.0 offers significant opportunities in reducing the cost of remanufacturing through higher levels of connectivity and efficiency. This session will focus on how new twists on old technology increase efficiency, reliability, and digitization of the remanufacturing process.

- **Todd Wieland, Director of Engineering, Cummins Inc.** (Session Chair/Moderator)
- **Helene Pepin, Senior Group Manager, Advanced Remanufacturing, ARTC (Singapore)** Industry 4.0 in Reman
- **Salvador Corpus, Director of Global Manufacturing Engineering and Operations Strategy, Cummins Inc.** Systems Approach to Facility and Processes

**Track 3 – Logistics**

Reverse logistics and returns management represent a significant opportunity for the industry to improve margins, increase reputation through responsible product management, and gain a competitive edge. This session will help attendees understand the value drivers in a reverse chain strategy and how they embed new approaches into their processes, technology and organization.

- **Nikos Papaioannou, Senior Manager, Amazon Renewed, Amazon.com** (Session Chair/Moderator)
- **Vaughn Henson, General Manager, SRC Logistics Inc.** Core Management
- **Chris Cloutier, Director of Sustainability, CoreCentric Solutions** Leveraging big data for more reliable products and reduced warranty costs
- **Ron Giuntini, Principal, Giuntini & Company, Inc.** Remanufacturing of Autonomous Vehicles

### Break

### Concurrent Technical Tracks - Session 4

**Track 1 - Workforce Development (WFD)**

The remanufacturing industry can only reach its economic potential through strong alignment between industry needs and a skilled workforce. Despite an improving economy and numerous programs, significant labor market challenges persist for both workers and employers. Attendees will learn from some of the leading WFD innovators in the US who are reframing and reimagining workforce development for larger scale solutions and more accountable outcomes for the remanufacturing industry.

- **Michelle Schlafer, Chief Operating Officer, REMADE Institute** (Session Chair/Moderator)
- **Dr. Matt Hudson, Dean of Technical Education, Ozarks Technical Community College**
- **Bryan Christy, Factory Manager, John Deere Reman (Edmonton, Canada)** Apprenticeships
- **Michelle Schlafer, Chief Operating Officer, REMADE Institute**

**Track 2 - Cleaning**

The main purpose of cleaning during the reman process is to facilitate inspection and damage correction. Cleaning can require one or multiple processes including both manual and machine operations. Attendees will learn the latest innovations in aluminum cleaning.

- **Mike Haselkorn, Senior Research Faculty, RIT Golisano Institute for Sustainability** (Session Chair/Moderator)
- **Fred Greis, Wet Technologies, Inc.** Aluminum Components-Closed Loop Slurry Cleaning, Descaling and Finishing
- **Stefan Thäter, University of Bayreuth** Cleaning in Remanufacturing – Reducing Costs with Optimized processes
- **Milton Svetanics III, Sales Manager, Industrial Applications, Blackstone - NEY Ultrasonics**

### Wrap up

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**September 21 – Alstom USA, Hornell, NY**

**7:30 am – 2 pm** Tour of Alstom USA followed by lunch at Letchworth State Park