Accenture
Sharon Cordin

Why I am at the Workshop:

• To be part of creating cutting edge solutions to address challenges in manufacturing to further support our clients

I am most interested in projects that:

• Support efficiencies / cost savings in supply chain processes
Why I am at the Workshop:

• Looking to extend our experience and success partnering on previous Project Calls to new opportunities involving complex product design & manufacturing cost challenges

I am most interested in projects that:

• Offer new applications and potential markets for my company’s Enterprise Product Cost Management technology
• Could benefit from adding real-time cost simulation capabilities into a fully integrated overall solution
Project Interests

DMDII-15-13
Cyber Security for Intelligent Machines

DMDII-15-14
Hardware/Software Toolkit for Real-time Machine and Process Diagnostics, Monitoring and Self-Correction

Capabilities

Hardware + Sensors + Middleware + Data platform + Algorithms
Why I am at the Workshop:

• To spread awareness of Argonne’s rich history in algorithm development for process monitoring and fault detection and its successes with technology commercialization (e.g. Smart Signal acquired by General Electric)

• To seek industrial partners for transitioning new technologies into the commercial sector through sponsored research

I am most interested in projects that:

• Target technology development for aiding operator situational awareness of process operation
ASM International
Larry Berardinis

Why I am at the Workshop:
• Looking for collaborative database development opportunities and organizations in need of hosting and materials data management support

I am most interested in projects that:
• Seek to advance the state of the art in the use of MBD and semantic PMI, extending the Digital Thread across the entire product lifecycle
We are at the Workshop because:

• We are interested in project calls that could benefit our company and customers including new-technology manufacturing methods, software, and equipment to improve our digital manufacturing techniques and result in increased efficiency, quality, and profitability.

• Atlas is a leader in precision manufacturing technology.

• We believe in collaboration with others so that we may advance our industry and solve problems that are much bigger than any one person or group could tackle on their own.

We are most interested in projects that:

• Can improve overall operations, productivity, and profitability while offering unique solutions to our customers.
Why I am at the Workshop:

• To network and identify potential partners for DMDII-15-13, Cyber Security for Intelligent Machines.

I am most interested in projects that:

• Offer applications and test beds for our unique technology risk assessment software.
Why I am at the Workshop:

• New membership, to meet the people associated with DMDII, and to see the Facility, particularly the 7 Manufacturing Cells.

I am most interested in projects that:

• Will utilize Smart Manufacturing/Industry 4.0 technologies and concepts (i.e. implementation of machine sensors and intelligence into new and used CNC machines).
Automation of Things
Sam Taylor

Why I am at the Workshop:

• To work on DMDII projects that adds or enhances our capabilities
• Find collaborations

I am most interested in projects that:

• Bring our technologies to market
• Enhance our product capabilities
Authentise Inc.
Andre Wegner

Why I am at the Workshop:

• Deliver solutions and lessons learned from the fully digital additive manufacturing toolchain!

I am most interested in projects that:

• Experiment with new approaches to security, especially a direct-to-machine approach

• Deploy computer vision process monitoring solutions

• Solutions that deliver 3Dix – our developer toolchain for 3D applications
Automation of Things
Jürgen Seyler

Why I am at the Workshop:

• To work on DMDII projects that adds or enhances our capabilities
• Find collaborations

I am most interested in projects that:

• Bring our technologies to market
• Enhance our product capabilities
Tomasz Luniewski CEO & founder

Why I am at the Workshop:

• To present Capvidia support of the ANSI QIF standard for MBD/MBE
• To identify opportunities and find project partners
• To support MBD/MBE concepts

I am most interested in projects that:

• Focus on MBD/MBE
• Reuse of 3D CAD data in downstream processes
Charlie Stirk

Why I am at the Workshop:

• Formerly DMDII AVM Transition Program Manager
• Standards Technology
  • STEP/PLCS, X3D, WebGL, ReqIF, SysML, FMI
• Software development
  • C++, Java, Javascript, Python, web services, data modeling
• Open Source Projects
  • STEPcode, OpenCasCade, FreeCAD, LinuxCNC

I am most interested in projects that:

• Advanced Manufacturing Enterprise
• Use interface and data standards
Clemson University
Joshua D. Summers, Prof. of ME

Why I am at the Workshop:

• To find industry partners for exploring advanced topics in assembly systems
• To introduce the community to the Clemson research group focused on assembly systems (time estimation, level of automation, associate instrumentation, fixture design, line balancing, etc.)
• To identify companies with problems that we can address

I am most interested in projects that:

• Serve as good research platforms (e.g., configuration change management, work instruction automation, mixed-model line balancing)
• Have direct and immediate impact on industry
Collaborative Management Services
Bill Charron

Why I am at the Workshop:

• To become better acquainted with DMDII
• To understand proposal preparation requirements for five new Project Calls announced 7/17/2015

I am most interested in projects that:

• improve automotive manufacturing digital virtual toolsets and capabilities:

Don Jasurda
djasurda@3dcs.com

Why I am at the Workshop:

• To learn more about the project requirements for DMDII 15-11, 12,13,14,15 and the process for project submission and engagement.

I am most interested in projects that:

• Align to requirements that have been outlined by our customers and that support the DCS objective of enabling production quality objectives to be met on the first product and every product.

www.3dcs.com
Why I am at the Workshop:

• Interested in increasing awareness of the Quality Information Framework (QIF) (www.qifstandards.org)

• Looking for organizations also interested in bring industrial metrology into MBD

I am most interested in projects that:

• Seek to bring Product Quality/Measurement into the domain of Model Based Definition

• Require advanced automation of metrological tasks via use of MBD
Why I am at the Workshop:

• Explore how the project calls topics could benefit my company
• Learn about emerging technologies in digital manufacturing and examples of how they are being/will be implemented

I am most interested in projects that:

• Increases productivity and reliability in Dow’s manufacturing facilities
Why I am at the Workshop:

- To learn about the DMDII and its project call process

I am most interested in projects that:

- Involve collaboration with other MIIs
Ford Motor Company
Allison Stephens MSc CPE

Why I am at the Workshop:
Ford is a leader in Virtual Manufacturing and I am interested in finding innovative ways to solve problems
Looking for partners and leveraging for USCAR projects

I am most interested in projects that:

• Virtual manufacturing to improve the challenges of automotive assembly. Digital Human modelling, Ergonomics and health & Safety
Why I am at the Workshop:

• Learn more on how to align GE strategy with the institute vision
• To meet with and explore working relationships with academics and small to medium sized enterprises that are interested in next generation supply chain analytics technologies

I am most interested in projects that:

• Align with supply chain analytics/optimization, combining data visibility/federation technologies, advanced algorithms and visualization technologies identify opportunities for increased supply chain productivity, speed and competitiveness
Why I am at the Workshop:

• My first time here and excited to learn more about the institute and how to do business with the institute

• To meet with academics and small to medium sized enterprises who are interested in pushing the limits on machine productivity

I am most interested in projects that:

• Align with intelligent machining, combining sensor driven automation, and machining modeling to identify opportunities for increased productivity, minimize human driven errors, and increased OEE (Overall Equipment Effectiveness)
Why I am at the Workshop:

• To learn more about the DMDII group and expand our knowledge on digital manufacturing capabilities.

I am most interested in projects that:

• Bring new ideas and improve the processes within our company to benefit our customers.
Ghafari Associates, LLC
John R. Patelski, P.E., LEED AP

Why I am at the Workshop:

• Want to meet potential clients and introduce our company as a provider of Architecture, Engineering and Construction Services

• Looking for manufacturing companies with upcoming projects involving internal operations improvement and/or facility modernization

I am most interested in projects that:

• Benefit from the use of our technology tools and work processes (LEAN, BIM, Laser Scanning, vPlanner), to reduce operating and capital costs and enhance schedule delivery
Why I am at the Workshop:

- To network with other individuals that have complimentary goals and expertise for project call 15-12.

I am most interested in projects that:

- Rethink and revolutionize the way we work with the supply chain. Bring practical and unparalleled value to our customers.
Innovalia Metrology
Ian MacPherson

Why I am at the Workshop:

• Looking to meet manufacturing companies that -
  • Can benefit from inline metrology, virtual metrology, quality control and automation solutions.
  • Are interested in developing new solutions jointly to solve supply chain and quality control problems.

I am most interested in projects that:

• Provide new outlets, applications and testbeds for Innovalia Metrology’s industrial metrology solutions.
• Take advantage of advanced metrology solutions to improve communication throughout the supply chain.
INTEGRIS Group
Andy Berberich

Why I am at the Workshop:

• Interested in learning about new technologies that we can apply to our existing markets
• Looking for opportunities to co-develop new technologies and new strategic partnerships
• Extend our ODM capabilities into new markets

I am most interested in projects that:

• Improve the data flow between hardware and software by developing new electrical and mechanical products
• Involve computational and dynamic system simulation
Why I am at the Workshop:
• Meet potential partners on various project calls.
• Support the DMDI mission for applying cutting-edge digital technologies.

I am most interested in projects that:
• Have complex products or complex customer engagements and complex supply chains.
• Leverage product definition via MBD/MBE (no traditional drawings)
• Utilize 3D models in downstream applications
  (Example: manufacturing and inspection operations)
• Use neutral standards (STEP, PDF, JT) as a way to communicate 3D models/information for upstream or downstream users.
Dr. Matt Frank

Why I am at the Workshop:
• To facilitate the teaming of ISU researchers with industry and other academic partners on DMDII project calls.

I am most interested in projects that:
• Match well with our strengths at ISU in, for example, Manufacturing Engineering, Engineering Design, Virtual Reality, Supply Chain, Analytics, Sensors and Control. And, projects that build upon our nationally recognized labs, for example, the Center for E-Design, Center for Non Destructive Evaluation (CNDE) and the Virtual Reality Applications Center (VRAC).
Why I am at the Workshop:

• How to submit white paper in response to Project Call, project size, commercialization readiness and chances of acceptance, type of organization the Call targets.

I am most interested in projects that:

• If intelligent welding systems using sensors to adaptive to part fit-up conditions and other variability are suitable projects; and if manual or automated welding both qualify.
Hazim El-Mounayri, PhD
Director of IPLI (Initiative for Product Lifecycle Innovation)

Why I am at the Workshop:

• As a member of DMDII, IUPUI is looking for partners on DMDII projects, in the three areas:
  • Digital certification (e.g. DMDII – 15-11)
    • Modeling, simulation, visualization and optimization of product, system (e.g. full Vehicle), or process (e.g. Additive manufacturing, hybrid manufacturing, etc.)
  • Intelligent machines (e.g. DMDII – 15-13 & 15-14)
    • Online monitoring and control (e.g. AM, Machining, etc.)
  • Product lifecycle & supply chain (e.g. DMDII – 15-12)
    • PLM for Health care/medical devices
    • PLM & IoT; SE model-based PLM

I am most interested in projects that:

• Advance Product lifecycle practice, through: DMD, AE, and PLM
Why I am at the Workshop:

- To better understand the goals and priorities of DMDII members and potential members

- To define opportunities and value creation for DMDII:
  - Near-term support to existing DMDII members and outreach to potential new members
  - Long-term strategies and business models to help DMDII thrive

I am most interested in projects that:

- Emphasize strategies for commercialization or transition into the US Department of Defense
Lockheed Martin
Jeff Gleeson

Why I am at the Workshop:

• To exchange ideas for potential projects and meet potential partners.

I am most interested in projects that:

• Extend the Digital Thread by reusing data from one step in the value stream to the next, especially while crossing the boundary between IT and OT.
Purpose of my attendance at the workshop:

- I am seeking manufacturing partners interested in further development of a novel accommodative intraocular lens.

I am most interested in:

- Generating a research incubator dealing with the manufacture of ophthalmic products based on soft lithography technology.
Bryan Fischer – Roy Whittenburg

We are at the Workshop to:

• Participate in or lead projects as MBx subject-matter experts and program managers in 3D MBD, MBE, Model-Based business processes, PMI, TDPs, standards and best practices

We are most interested in projects where we can:

• Identify and close gaps in MBx processes, standards, and technologies
• Leverage our expertise, experience, and leadership to enhance the usefulness and applicability of software, products, workflows, processes, etc. for stakeholders
• Optimize standards and best practices for 3D MBx
Mark R. Beckmann

Why I am at the Workshop:

• Support, learn and offer guidance on how Microsoft may add value to and help you address your project challenges through technology platforms.

I am most interested in projects that require:

• Use Data, Big Data, Machine Learning or HPC
• IoT
• Augmented Reality
• Cloud Platforms
• Collaboration and Social Platforms
• Mobile Devices
• Security
Why I am at the Workshop:

- Interested in partnering with companies to address completing the model based definition

I am most interested in projects that:

- Address the digital lifecycle
- Virtual manufacturing & process simulation
- Materials Simulation – “Virtual Materials”
Mississippi State University
Larry Dalton

Why I am at the Workshop:

• Become more familiar with the proposal process
• Develop potential collaborations
• Learn more about DMC

I am most interested in projects that:

• Leverage any aspect of manufacturing technology
Why I am at the Workshop:

• Want to contribute and develop the emerging digital manufacturing technologies that could help industry.

• Collaborate with manufacturing companies, particularly medical, aerospace and energy sectors to implement digital manufacturing technologies.

I am most interested in projects that:

• Involve hardware and software systems for intelligent machines, specifically utilizing STEP-NC digital formats and smarter machine controllers.

• Integrate shop floor control systems with the digital thread concept.

• Help bring these technologies from my laboratory to market – both big and small manufacturing companies.
Why I am at the Workshop:

- Looking for manufacturers to solve production challenges with practical digital technologies like laser assisted manufacturing (i.e. additive mfg.)

I am most interested in projects that:

- Reduce risk of adopting advanced digital manufacturing laboratory technologies through students experienced by working with world-class manufacturers

http://niu.edu/ceet/Facilities/ARMM.shtml
http://www.niu.edu/ceet/emhm/
http://www.niu.edu/ceet/msam/
Why I am at the Workshop:

- Looking for manufacturing companies with problems on networking of manufacturing assets and ensure its security.
- Learn more about the Testbed for Cyber Physical Manufacturing Systems
- I have almost twenty years experience on networking and security research and development

I am most interested in projects that:

- Monitoring of connected manufacturing assets
- Anomaly/Intrusion detection and prevention systems for such networked systems on the factory floor or within the manufacturing enterprise.
Northwestern University
Greg Wagner

Why I am at the Workshop:

• I have expertise in modeling and simulation of multi-physics, multi-scale phenomena – mechanics, flow and heat transfer

• I would like to understand the main technological bottlenecks and form collaborations with experimentalists and industry

I am most interested in projects that:

• Can be impacted by computational modeling and simulation
Ohio Supercomputer Center (OH-TECH)
Alan Chalker

Why I am at the Workshop:

• To network with attendees and DMDII staff about collaboration between our industrial engagement programs

I am most interested in projects that:

• Involve or can benefit from computational modeling and simulation resources
OPS Solutions LLC
Paul Ryznar-Presiden/CEO

Why I am at the Workshop:

• Collaborate/Develop/Implement digital and augmented reality manufacturing solutions with new and existing customers through project call work or immediately on their factory floor

I am most interested in projects that:

• Require a higher level of associate work instructions than current hard copy or monitor-based systems
Why I am at the Workshop:

• Identify use cases and opportunities for parallel computation in manufacturing.
• Connect with large firms looking to make internal computing workflows more effective.
• Connect with small/medium firms looking to learn more about high-performance computing.

I am most interested in projects that:

• Demonstrate the value of parallel computing in advanced manufacturing.
• Create innovative solutions that showcase high-performance computing in manufacturing design simulation and analysis.
Why I am at the Workshop:

• Investigate use cases for parallel computation in manufacturing.
• Understand the potential role of Swift parallel scripting language in manufacturing-related computation.

I am most interested in projects that:

• Leverage Swift on real-world manufacturing-focused computational simulation and analysis workflows.
• Investigate and demonstrate the value of parallel computing to advanced manufacturing.
John Krummen, Corporate Eng Manager

Why I am at the Workshop:

• The project calls topics could benefit my company
• Want to learn about emerging technologies in digital manufacturing

I am most interested in projects that:

• Improve operations in my factory and in my supply chain
Procter & Gamble
Jeff Harrington

Why I am at the Workshop:

• Engage with current and potential DMDII members on future collaborations that create value by solving complex digital problems spanning multiple industries.

I am most interested in projects that:

• Affordable Automation and Robotics
• Supply Chain Innovation (From Shelf Back to Supplier)
• Cyber Security
• Model Based Enterprise Solutions
• Integration of Performance Data in Enterprise Big Data Solutions
Product Development & Analysis (PDA) LLC
providing design and manufacturing solutions for over 20 years for metalcasting, composite and plastic
utilizing digital technologies – CAE, Virtual Simulation, Scanning, 3D Printing - AM.

Jiten Shah, President
e-mail: info@PDA-LLC.com

Why I am at the Workshop:
• To be a teaming partner with OEM and Research Organizations who are looking for an SME with contract research and domain expertise in metal casting to develop digital enablers for Agile Manufacturing, Model Based Definition and Self-correcting Machining Cell for Metal Castings.
• To facilitate technology roll out through demonstration using real projects.
• To facilitate workforce development and training working closely with professional societies – AFS, SFSA, NADCA

I am most interested in projects that:
• Impact MetalCasting Industry – Designers (OEMs) and Manufacturers (Tier suppliers – machine shops and metal casters)
  • Model Based Definition - (15-11)
  • Hardware and Software toolkit for Self-Correcting Machining (15-14)
  • Agile Manufacturing to Compensate for Production variability (15-15)
Purdue University
Henry Kraebber

Why I am at the Workshop:

• To learn how to participate with DMDII to design and deliver outstanding learning opportunities to undergraduate and graduate students

I am most interested in projects that:

• Demonstrate the power of advanced new systems for manufacturing students and partner companies
Quad City Manufacturing Lab & Western Illinois University
Dr. Eric Faierson

Why I am at the Workshop:

- To learn about the manufacturing problems that industry and government need addressed and to showcase the abilities we have to solve them

I am most interested in projects that:

- Involve advanced manufacturing technologies such as additive manufacturing, robotics, machine vision, in-situ process sensing, closed-loop process control, and open-source architectures
Quad Cities Manufacturing Innovation Hub
Curt Burnett

Why I am at the Workshop:

• Look for emerging technologies that will impact our regions manufacturing base

• Create a strategy to help our small and medium manufactures become digitally ready

I am most interested in projects that:

• Can utilize the Quad Cites Manufacturing Lab in collaboration with our large OEM’s

• Can utilized our metals and multi-material manufacturing cluster as a test bed for potential solutions
Raytheon Company (IDS)
Robert Di Carlo

Why I am at the Workshop:

• To develop strategic partnerships with manufacturing equipment communication software and hardware experts

I am most interested in projects that:

• Utilize our vertically integrated manufacturing facilities as testbeds for equipment monitoring and process control
• Can bring new technologies into my company
RISE-ES

Sridhar Subramanyam

Why I am at the Workshop:

• To learn more about the Project Calls, in particular the one for Cyber Security for Intelligent Machines and identify Manufacturing Businesses with challenges in this space that are interested in teaming on the response to this Project Call

I am most interested in projects that:

• Provide a testbed and the opportunity to showcase applications for digital manufacturing technology solutions, such as identifying Manufacturing Cyber Security Failure Scenarios and applying a Digital Risk Management approach to addressing them
Rochester Inst. of Technology
Michael Thurston

Why I am at the Workshop:

- Networking with other technology developers and users
- More information on the current round of project calls
- Looking for partnerships for current/future project calls

I am most interested in projects that:

- Support or need engagement with SME manufacturers
- Relate to Agile Manufacturing and DMC (Open Source SW) project calls
Why I am at the Workshop:

• Interested in learning more about the project calls for Supply Chain Visibility, and the use of Real-time time Manufacturing information

I am most interested in projects that:

• Enable the next generation manufacturing enterprise
• Involve big data for manufacturing and supply chain
• Focus on advanced analytics and enabling collaboration through the use of data.
Why I am at the Workshop:

• As a driver for Sandvik’s digital mfg. strategy in the Americas, I have an interest to engage solution development opportunities

• Interested in building a network of companies and contacts focused on digital mfg. and exploring possible future partnership opportunities

I am most interested in projects that:

• Can address the needs of our future product and/or service offers to our customers

• Are focused on developing “digital thread” capabilities across the Machine Shop value chain
Siemens Corporation – Corporate Technology
Lucia Mirabella

Why I am at the Workshop:

• Meet potential partners for next DMDII proposals. Specifically we are looking for manufacturers and other OEMs interested in solutions we can develop for calls #15-11, #15-12, #15-14, #15-15.

• Gather more information on the requirements of the current project calls.

I am most interested in projects that:

• Give the opportunity to develop new technology in the area of automation and control, including lifecycle engineering and methods to simulate, optimize, operate and control manufacturing systems and processes.

Siemens PLM Software
K. Sundararaju

Why I am at the Workshop:

• Looking for emerging technologies to create software solutions that will benefit the manufacturing industry

I am most interested in projects that:

• Links design, planning and execution to enable closed loop manufacturing with high quality and efficiency
Sigmetrix, LLC.
Stephen Werst

Why I am at the Workshop:

• Gain a better understanding of the top needs and challenges of companies at the forefront of transitioning to Model Based Definition (MBD).

• Demonstrate how automating tolerance analyses is another benefit of transitioning to MBD.

I am most interested in projects that:

• Improve integration of design and manufacturing data supporting design tools that guide engineers to make design decisions based on actual production capabilities.
SimaFore – Analytics Made Accessible

Bala Despande, Founder
Steve Riley, Dir., NA Sales

Why I am at the Workshop:

• Interested in solving problems for my customers, who wish to leverage Big Data and Data Analytics to become more competitive, and better serve their customers.

I am most interested in projects that:

• Can realize greater success through the use of Predictive Analytics
• Can become an important element in the Internet of Things (IoT)
Why We Are at the Workshop: Represent SIU, NSF I/UCRC for Embedded Systems (CES) – SIUC

- **CES research areas of expertise**
  
  - **Cyber-Physical Systems:** Modeling/simulation/verification/test
  - **Embedded Software Systems:** Real-time scheduling, middleware and VM, embedded software instrumentation, platforms for mobile and cloud computing
  - **Electronic System-level Design and Technologies:** Modeling, simulation, hardware/software co-design, trusted/reliable/secure design
  - **Integrated Circuit Technologies, Design and Test**
  - **Embedded Multicore Architectures and Programming**
  - **Power, Energy and Thermal Aware Design**

- **Industry members Inception to Present:**
  
  - Bosch, Ford, Intel, Johnson Controls, Marvell, Qualcomm, Raytheon, Rockwell-Collins, Toyota, UTC Aerospace Systems, Alphacore, Caterpillar, Dickey-john, EMAC, NAVSEA

We are most interested in projects:

- **DMDII-15-11:** Completing the Model-Based Definition
- **DMDII-15-13:** Cyber Security for Intelligent Machines
- **DMDII-15-14:** Hardware/Software Toolkit for Real-Time Machine and Process Diagnostics, Monitoring and Self-Correction
Why I am at the Workshop:

• To join and participate on teams with challenging problems involving uncertainty quantification, model validation, and manufacturing automation

I am most interested in projects that:

• Require calibrating, validating, and quantifying variability in computational predictions through data analysis and physics-based modeling

• Involve the use of automation, manufacturing, and process monitoring and control

• DMDII-15-15 Agile Manufacturing to Compensate for Production Variability

• DMDII-15-14 Hardware/Software Toolkit for Real-time Machine and Process Diagnostics, Monitoring and Self-Correction
Scott E. Miller

Why I am at the Workshop:

• More money & profits for the manufacturing industry.
• Bring together OEMs, SMMs, Solutions Providers & Universities to Increase System Productivity
• Be a part of the next industrial revolution to keep America great

I am most interested in The Productivity Project (CNC Machining):

• OEM with Machining Need
  Predictable, Dependable & Certifiable Supply Chain that lower costs.
• SMM with Machining Service
  Quick, Easy, & Affordable Projects that increase productivity.
• Solution Provider with Machining Solutions
  Measureable, Repeatable, & Scalable Projects that produce new customers
• Universities with Machining Research
  Beta Customer Testing, Validated Results, & Technology Transition Vehicle to commercialize research
Why I am at the Workshop:

• Since 1872, we have been developing solutions to ensure the safety, quality and economic efficiency of the interaction between man, technology and the environment. We firmly believe that social and technological progress are inextricably linked together.

• We are looking to support industry growth and development by partnering on project calls where we can advance the state of the art by leveraging our expertise and by working with individual companies to help bring their products and ideas to a global market.

I am most interested in projects that:

• Link our core strengths and company mission to the industries needs.
  • We are a leading global service provider of certification, inspection and test of equipment, machinery, software, network security, wireless communication protocols, controls, components, materials and more.
  • We provide businesses and industries global market access for their equipment, products and ideas.
Why I am at the Workshop:

- We are interested in emerging technologies that will enable us to continue to be market leaders in our category, developing and implementing innovative, premium, high quality, sustainable products as efficiently as possible.

I am most interested in projects that:

- Support collaboration, innovation, speed to market and right first time, such as digital design tools, simulation/modeling, quality and data analysis and supply chain/MFG DFM principles.
Why I am at the Workshop:

- Tier-1 Membership (SUNY Buffalo Point of Contact)
- Tell you about SEAS @ SUNY Buffalo http://engineering.buffalo.edu/
- Tell you about my research http://mechatronics.eng.buffalo.edu
- Find collaborators.

I am most interested in projects that:

- DMDII-15-11 Completing the Model-Based Definition
- DMDII-15-13 Cyber Security for Intelligent Machines

Venkat Krovi
Professor, Mech. & Aero. Engg.

Research Interests

- Lifecycle treatment (design, analysis, implementation and verification) of smart, mechatronic and robotic systems.
- Research Thrusts
  (a) Multi-robot Cooperation
  (b) Robotic-Haptic Devices Design & Control
  (c) Mediated Teleoperation
  (d) Distributed real-time system simulation/control
  (e) Human-Robot Interaction

Professional Activities

- NSF CAREER 2004
- 2000 Petro-Canada Young Innovator, McGill University
To introduce UB to the group
http://engineering.buffalo.edu/
To find collaborators

We are interested in all current projects
UIC
Vitali Metlushko

Why I am at the Workshop:
• Prototype funding

I am most interested in projects that:
• Bio-Medical Applications
Why I am at the Workshop:

- I would like to explore collaborative research opportunities in simulating diverse manufacturing processes with a view to improve their performance. I have more than 40 years of simulation experience in fluid flow and heat transfer.

I am most interested in projects that:

- Require simulations of multidisciplinary phenomena such as heat transfer, fluid flow, material properties, phase change etc.
Veriflow Systems / Univ. Illinois
Matthew Caesar

Why I am at the Workshop:
• I work on formal verification and its applications to cybersecurity of manufacturing
• Want to get feedback and explore applications

I am most interested in projects that:
• Explore next-generation security for communication infrastructure
The University of Illinois at Chicago
Thomas L. Theis, Director
Institute for Environmental Science and Policy
Environmental Manufacturing Management:
A program in Industrial Ecology

Industrial Ecology (IE): the activity of designing and managing human production and consumption systems over their entire life cycle to ensure environmental, economic and social sustainability

Why I am at the Workshop: To learn about opportunities for integrating IE into the next generation of manufacturing methods

I am most interested in projects that advance the science of IE, while developing tools for the analysis and design of industrial ecosystems as they interact with natural systems
University of Illinois at Chicago
Didem Ozevin

Why I am at the Workshop:

• Learn about the mission and mechanism of UILabs, and learn about interesting research problems that the manufacturing industry can benefit.

I am most interested in projects that:

• Apply the fundamental research into practice in the field of machine health monitoring
Why I am at the Workshop:

• Learn emerging technologies in digital manufacturing
• Look for collaborators in manufacturing companies

I am most interested in projects that involve:

• Data mining and statistical learning
• Design and analysis of experiments
University of Illinois at Chicago
Michael McNallan, Professor of Materials Science

Why I am at the Workshop:

- Looking for manufacturing companies with interesting problems that address materials processing and characterization

I am most interested in projects that:

- Take advantage of the unique capabilities of digital manufacturing to modify materials properties and reduce processing costs
- Draw on my experience with corrosion resistant materials, tribological materials, metals, ceramics, and biomedical materials
University of Illinois at Chicago
Mengqi Hu

Why I am at the Workshop:

• Looking for manufacturing companies with interesting problems that I can work on

I am most interested in projects that:

• Help increase the broader impact of my methodologies
• Decision making for manufacturing system
• Manufacturing system cyber security
University of Illinois-Chicago

Karl Rockne, Professor and Interim Head

Why I am at the Workshop:

- Looking for interesting projects to leverage my expertise in:
  - Environmental forensics, GIS and laboratory chemical analysis
  - Applied environmental biotechnology
  - Sustainable/green infrastructure

I am most interested in projects that:

- Utilize our laboratory analytical capacity, modeling and field expertise to identify and solve environmental issues before they become expensive problems/liabilities
University of Illinois at Chicago (UIC)
Farhad Ansari fansari@uic.edu

Why I am at the Workshop:

- Representing the Office of Vice Chancellor for Research
- Will be available to facilitate research between manufacturing companies and UIC researchers

UIC Faculty Researchers will be interested in projects related to:

- Advanced Manufacturing Enterprise (AME), Intelligent Machines (IM), and Advanced Analysis (AA).
University of Michigan
Dawn Tilbury, Professor, Assoc. Dean

Why I am at the Workshop:

• Research on manufacturing systems, including operational improvements, cloud-based operations, hybrid processes with physical plant and simulation, and cybersecurity
• Identify industry partners for research. Define realistic use cases.

I am most interested in projects that:

• Leverage the small testbed we have at UMich
• Have a strong research component with publishable results
Department of Industrial & Systems Engineering

Jeremy L. Rickli, Assistant Professor

Why we are at the Workshop:
• To represent Wayne State interests and design & manufacturing research capabilities relevant to DMDII
  • NSF Center for e-Design Site, Big Data and Business Analytics, Advanced Materials and Manufacturing, and others
• To search for manufacturing companies with interesting problems that we can solve collaboratively

We are most interested in projects:
• That help bring technologies from our laboratories to market
• DMDII-15-15: Agile Manufacturing to Compensate for Product Variability
• DMDII-15-11: Completing the Model-Based Definition
Why I am at the Workshop:

- Looking for partners to collaborate on:
  1. Innovative CAD to Path Solutions for Adaptive Robotic Additive & Subtractive Manufacturing (metals & plastics)
  2. Incorporating predictive deformation tools into robotic welding & additive applications for path sequencing

I am most interested in projects that:

- Concentrate on process monitoring & control in real time for adaptive purposes so that technologies and methods can be shared for applications with both robots and machine tools
Why I am at the Workshop:

- To learn about emerging technologies and understand how they can fit in my company
- To learn about the Project Call Process
- To understand projects so I can be informed as we consider membership in the DMDII

I am most interested in projects that:

- Allow for existing assets to be adapted/outfitted with elements that can bring them into the digital age
Why I am at the Workshop:

• Looking for manufacturing companies who work with powder injection molding (MIM or CIM)

• Looking for companies who develop CAE tools for injection molding simulations
Expertise: Metrology, CMM Algorithms, Feature Recognition, Automated CAPP, DfM, DfA, CAD-FEA-CAM Inter-operability, STEP data exchange; Metrics & management of complexity, adaptability, modularity

Interested in teaming opportunities:
- Project call 15-11: Model based definitions & clean digital interfaces
- Project call 15-15: Predicting production variability
- Project Call 15-16: Putting design, analysis software apps on DMC

Contact: Dr. Jami Shah, Professor & Director, Design Automation Lab
@OSU 614 247 7723; shah.493@osu.edu
@ ASU 480-965-6145; jami.shah@asu.edu
University of Illinois at Chicago
Sheng-Wei Chi

Why I am at the Workshop:

• Looking for manufacturing companies with interesting problems that I can work on

I am most interested in projects that:

• Help bring advanced computational methodologies from my laboratory to market
Illinois Applied Research Institute (ARI)  
Magdi N. Azer, Ph.D.

Why I am at the Workshop:

• Looking to identify project team partners for ARI and University of Illinois faculty.

• Willing to help connect companies/universities/SMEs identify partners

I am most interested in projects that need expertise in the following:

• 15-12 – Technologies Enabling Supply Chain Visibility

• 15-13 – Cyber Security for Intelligent Machines

• 15-16 – Agile Manufacturing to Compensate for Production Variability
Accenture
Darin Minter

Why I am at the Workshop:

• To share trends and exchange ideas about Industrial IoT technologies and solutions.

I am most interested in projects that:

• Leverage digital technologies, including Mobile, IoT, and Analytics
Energy Resources Center
@ University of Illinois at Chicago
Cliff Haefke

Why I am at the Workshop:

• To network and learn more about the research opportunities

I am most interested in projects that:

• Are related to energy efficiency, smart metering, distributed energy, combined heat and power (CHP), energy resiliency, and microgrids