Selection Committee for 
David Dornfeld Manufacturing Vision Award and Blue Sky Competition

The second David Dornfeld Manufacturing Vision Award and Blue Sky Competition, with funding from the National Science Foundation, will be held during the 2018 SME North American Manufacturing Research Conference/ASME Manufacturing Science and Engineering Conference (NAMRC/MSEC), June 18-22, 2018, College Station, TX.

The following 12 people have confirmed (or tentatively confirmed) to serve on the selection committee:

*AFOSR: Sofi Bin-Salamon (Program Manager, Biophysics)
DARPA: Bradley Ringeisen (Deputy Director, Biological Technology Office)
DoD: A. Adele Ratcliff (Director, Manufacturing Resiliency & Assurance and Industrial Base Analysis & Sustainment)
DoE: Rob Ivester (Director, Advanced Manufacturing Office)
NASA: John Vickers (Principal Technologist)
NIST/AMNPO: Frank Gayle (Deputy Director, Office of Advanced Manufacturing)
*AAAS/Science: Bill Moran (Publisher, the Science family of journals)
Boeing: Steve Walls (Technical Fellow, Production Engineering/Building Integration)
GE: Dale Lombardo (Technical Operations Leader, Structural Materials Processes & Analytics, GE Global Research Center)
NCDMM: Ralph Resnick (President and Executive Director)
NIIMBL: Kristy Pottol (Information and Regulatory Director)
Saint Gobain: Anand Tanikella (Vice President, R&D Abrasives worldwide)
(* tentatively confirmed)

On the same day, in addition to the Blue Sky competition, there will be two special sessions:

- “Federal Agencies’ Perspectives on Advanced Manufacturing” (Federal members of the Blue Sky selection committee and other Federal representatives will be the panelists)
- “What’s New at NSF – Update from NSF Program Directors” (NSF program directors attending the conference will be the panelists)

The following pages have brief bios and photos of selection committee members.
Sofi Bin-Salamon

Program Manager, Biophysics program
Air Force Office of Scientific Research (AFOSR)

Sofi Bin-Salamon received his PhD in Chemistry at North Carolina State University in 2005. He then served as a National Research Council Research Associate in the Chemistry Division at US Naval Research Laboratory where he developed nanoelectronic materials. Afterwards, he expanded his work on materials chemistry to include photodynamic therapy. This was initially performed in the Department of Chemistry at Texas A&M University and later continued at the Radiation Oncology Branch within the National Cancer Institute/National Institutes of Health. Sofi has served as an American Association for the Advancement of Science Fellow and Program Manager at the AFOSR International Office. He currently is the Program Manager of the AFOSR Biophysics program.
Frank W. Gayle

Deputy Director, Advanced Manufacturing National Program Office (AMNPO)
Deputy Director, NIST Office of Advanced Manufacturing
National Institute of Standards and Technology (NIST)

Frank W. Gayle is the Deputy Director of the Office of Advanced Manufacturing at the National Institute of Standards and Technology (NIST). NIST’s Office of Advanced Manufacturing is responsible for extramural advanced manufacturing programs and serves as a liaison to industry and academia. The interagency Advanced Manufacturing National Program Office coordinates Federal activities in advanced manufacturing, and is the Congressionally-designated National Program Office for Manufacturing USA – the National Network for Manufacturing Innovation. Frank spent 11 years in the aerospace industry before joining NIST. As Division Chief of the NISTMetallurgy Division, Frank developed programs in energy, microelectronics, and mechanical properties, focusing on measurement needs for industry. Frank also led the team of technical experts on the forensics of structural steel in the Congressionally mandated NIST investigation of the World Trade Center disaster on September 11, 2001. Frank earned an Sc.D. in Materials Science from MIT, and degrees in Civil and Mechanical Engineering from Duke University.
Robert W. Ivester currently serves as the Director of the Advanced Manufacturing Office (AMO) in the Office of Energy Efficiency and Renewable Energy. AMO is focused on creating a fertile innovation environment for advanced manufacturing, enabling vigorous domestic development of new energy-efficient manufacturing processes and materials technologies to reduce the energy intensity and life-cycle energy consumption of manufactured products. Prior to this position, he served as the AMO Deputy Director for five years. During that time, AMO launched five Manufacturing USA Institutes, the Critical Materials Hub, and hundreds of small R&D and technical assistance projects across the Nation. He also worked at the National Institute of Standards and Technology for over 16 years, leading and performing research in advanced manufacturing. He has been an instructor for the Johns Hopkins University Engineering for Professionals program for graduate-level studies in manufacturing engineering since 2001. He is a Fellow of SME and the American Society of Mechanical Engineers. He received his doctorate in engineering, a Bachelor of Science in Mechanical Engineering, and Master of Science in Manufacturing Engineering from the University of Massachusetts at Amherst.
Dale Lombardo

Technical Operations Leader
Structural Materials Processes & Analytics
General Electric Global Research Center

Dale Lombardo leads a diverse team of manufacturing technologists working across GE’s broad product portfolio. His team links materials to design to customers through a variety of processes including machining, joining, and inspection. Dale’s team expands the envelope of conventional manufacturing and incorporates novel and non-conventional methods (e.g. electro-thermal, electro-chemical, and lasers) into GE’s toolkit of how its parts are or will be made. Dale graduated from Rensselaer Polytechnic Institute with both BS & MSME with a specialization in Mechatronics & Controls. He joined GE Global Research developing control strategies for machining as a special process for GE Aviation. After that, Dale worked for GE Aviation and expanded to more general in-process machining monitoring and led GE’s Shot Peening Special Process team globally for GE jet engines and co-chaired the startup of the PRI/Nadcap criteria for peening special process supplier supervision still in use today. Dale was then part of a Manufacturing Technology startup organization within the GE Power business and expanded his surface treatment technologies expertise to include surface finishing and surface measurement. Dale is a member of the ASME B46 committee on Surface Texture. He holds multiple patents in a broad array of manufacturing related disciplines. Dale lives in upstate New York where he is also a volunteer and mentor in the local school district and supports STEM activities through Invention Convention. Dale represents GE for RPI’s MILL: Manufacturing Innovation Learning Laboratory and supports their Senior Capstone Design class.
Bill Moran currently serves as publisher of the Science family of journals. He joined AAAS in July 2005, and served as Science’s global director of International Collaborations, Custom Publishing and Advertising, and interim publisher. During his tenure with AAAS, Bill has been instrumental in broadening the association’s international publishing activities and collaborations. He opened the Beijing office of AAAS/Science in 2009. He spearheaded the launch of a Science presence in China, and developed an International Collaboration program for Science Publishing that encompasses Science Careers outreach as well as Editorial presentations to academic institutions in developed and developing countries. Before joining AAAS, Bill directed advertising for Informa pix/BioTechniques/PreClinica, and earlier, he was a senior vice president of advertising with the Nature Publishing Group. He was a founding member of Nature Online as well as Nature Jobs. He received his bachelor’s degree from Baruch College.
Kristy Pottol

Information and Regulatory Director for NIIMBL
The National Institute for Innovation in Manufacturing Biopharmaceuticals, a NIST-sponsored ManufacturingUSA institute

Kristy Pottol is the Information and Regulatory Director for NIIMBL, a NIST-sponsored ManufacturingUSA institute. Kristy comes to NIIMBL after a long career serving the Department of Defense. Recently, she was the Regenerative Medicine Project Manager to develop products to restore form, function, and appearance for our wounded warfighters. Additionally, Kristy was the Program Manager for the ARMI BioFabUSA, a DOD-sponsored ManufacturingUSA institute. Kristy designed, established, and launched the BioFabUSA program to make the manufacture of tissues and organs practicable. Kristy is a certified Defense Acquisition Professional Program Management Level 3 and Project Management Professional. She has worked in project management, biotechnology product development, FDA quality systems, business operations, and strategic communications for over 15 years and has an extensive and varied background in product development projects for militarily-relevant medical solutions from vaccines to devices. Kristy is a former US Navy Hospital Corpsman. She holds a MBA from Regis University, a MS in Accounting w/emphasis on Information Systems from the UNC Wilmington, and a BS Physics with an emphasis in biophysics from East Carolina University.
A. Adele Ratcliff

Director, Manufacturing Resiliency & Assurance (MRA) & Industrial Base Analysis & Sustainment (IBAS)
Office of the Deputy Assistant Secretary of Defense (ODASD) for Manufacturing and Industrial Base Policy (MIBP)
Department of Defense

Adele Ratcliff is currently the Director of the Manufacturing Resiliency & Assurance office and the Industrial Base Analysis & Sustainment Program (IBAS) within the Office of the Deputy Assistant Secretary of Defense (ODASD) for Manufacturing and Industrial Base Policy (MIBP). During her tenure in ODASD, she has focused on building strong interagency partnerships to address broad transition of manufacturing issues such as manufacturing readiness and the Advanced Manufacturing Enterprise. Her current position uses the broad authorities of the IBAS program element to enable a modern Industrial Base that integrates traditional and emerging sectors to be able to respond at will to National Security Requirements. Most recently, as the Director of the DoD Manufacturing Technology (ManTech) Program, Adele led the effort in establishing the DoD’s national Manufacturing Innovation Institutes (MIIs) outlined in the President’s 2013 State of the Union address, now known as Manufacturing USA Institutes. She has a long acquisition career, including Program Manager for the congressionally mandated Defense Acquisition Challenge Program, Deputy Program Manager for the Foreign Comparative Test Program, and more than eleven years in Air Force Test and Evaluation at Eglin Air Force Base in Florida. As Test Manager, she guided the Air Force’s Wind Corrected Munitions Dispenser test program (better known as WCMD), from prototype through the production and deployment phase of the Platform, earning her the Air Force Materiel Command Test Engineer of the Year Award. More importantly, her efforts transitioned this Platform to support the Warfighter in the initial phases of Operation Enduring Freedom. She is a proud alumnus of the Mississippi State University Bulldogs, earning a BS in Mechanical Engineering in 1988. In 2011 she graduated from the U.S. Army War College (in-residence) earning a MS in Strategic Art and graduated from the DoD’s Defense Senior Leadership Development Program (DSLDP). She received the Secretary of Defense (SECDEF) Award for Excellence for her support of the Pilot Institute for Additive Manufacturing in March 2013.
Ralph Resnick

President and Executive Director, National Center for Defense Manufacturing and Machining (NCDMM)
Founding Director, America Makes, the National Additive Manufacturing Innovation Institute

Ralph Resnick joined NCDMM in September 2008 as Vice President, and became President and Executive Director in May 2011. In 2012, he led NCDMM to winning the competitive National Additive Manufacturing Innovation Institute (America Makes) contract. Upon award, he also assumed the role of Acting Director of the Institute until February 2013 upon appointing a new director. Prior to joining NCDMM, He served as Chief Technology Officer for both The ExOne Company and Extrude Hone Corporation where he was a major contributor in establishing both organizations as leaders in advanced manufacturing, including such areas as additive manufacturing, process research, and technology transition to the world’s factory floors. He holds several patents in manufacturing processes and metrology. He serves on numerous Boards, including the Association for Manufacturing Technology (AMT), Chairman of the Board for the NSERC Strategic Network for Holistic Innovation in Additive Manufacturing, and Chairman of the Board for the NSERC Canadian Network for Research and Innovation in Machining Technology; the Louisiana Center for Manufacturing Sciences (LCMS); the NIST Smart Machining Consortium; and the MTConnect® Institute. He is also a member of DoD’s Joint Defense Manufacturing Technology Panel (JDMTP) Metals Subpanel and Advanced Manufacturing Enterprise (AME) Subpanel and participates actively in the NSF proposal reviews and technical events. He is an active member of the National Defense Industrial Association (NDIA) Manufacturing Division; Industry Advisor for the Eastern Westmoreland Career and Technology Center; and an associate member of the prestigious International Institution for Production Engineering Research (CIRP). Locally, He is on the Board of Directors for the Central Allegheny Challenger Learning Center (CACL) in Indiana County, PA; the Westmoreland-Fayette Workforce Investment Board; and the Westmoreland Heritage Trail. He is a former Chairman of the National Center for Manufacturing Sciences (NCMS) and was a longtime member of the Board of Directors until January 2013. He also is a former Board member of the Navy’s Electro Optic Center (EOC); a past Chairman of the AMT’s Technology Issues Committee; and past President of the NAMRI/SME.
Brad Ringeisen joined DARPA as the Deputy Director of BTO in December 2016. Before coming to DARPA, he was the Head of the Bioenergy and Biofabrication Section at the U.S. Naval Research Laboratory (NRL) where he oversaw diverse research programs including the development and application of laser-assisted printing approaches to biology, development of organs-on-a-chip, microbial energy harvesting and extracellular electron transfer as well as microbial discovery and microbiome characterization. His personal research focused on using a variety of novel laser-based processing tools to deposit patterns and 3D structures of biological materials including living cells, fixed tissue, solid-phase environmental samples, and biopolymers. He was also the Chief Technology Officer for the DoD’s Advanced Technology Biofabrication Manufacturing Innovation Institute. From 2012 to 2014, Brad was detailed at the Defense Threat Reduction Agency (DTRA) Joint Science and Technology Office as a science and technology manager, where he oversaw the development of field-forward diagnostic technology with wireless connectivity to the cloud. He is a pioneer in the field of live cell printing, having demonstrated the first living bacteria and mammalian cell printing experiment using modified laser-induced forward transfer (LIFT) technology in the early 2000s. He is a named inventor on thirteen patents, eight involving modifications to LIFT for biological applications. He has published over 65 peer-reviewed manuscripts and has edited a book on cell and organ printing. Throughout his career, he has worked across the Department of Defense (DoD) research enterprise having performed research for the Air Force Office of Scientific Research (AFOSR), the Office of Naval Research (ONR), DARPA, and the Defense Threat Reduction Agency (DTRA) in addition to his internal programs at NRL. Brad received a Doctor of Philosophy in physical chemistry from the University of Wisconsin-Madison and a Bachelor of Science in chemistry from Wake Forest University. He was named the DoD Lab Scientist of the Quarter in December 2015 for his achievements in applying bioprinting to the fields of tissue engineering and microbial ecology.
Anand Tanikella
Vice President R&D, Saint Gobain Abrasives Worldwide

Anand Tanikella is currently the worldwide Vice President of R&D for Saint Gobain Abrasives based in Massachusetts, USA. Prior to this, Anand was the founding Director of Saint Gobain Research India, a newly setup 7th transversal R&D center in Chennai, India. Anand joined Saint-Gobain in 1996 in USA as a Senior Research Engineer in Saint Go bain North American R&D Center in Northborough, MA in Boston area. He held various positions with increasing responsibilities during the past 21 years conducting breakthrough R&D in technologies related to ceramics, abrasives, plastics and various construction materials. He is passionate about Technology management and bringing out profitable Innovations, as well as about influencing the Impact of Engineering Education on Industrial Innovation. Anand received a Ph.D. in Materials Science & Engineering and Precision Engineering from North Carolina State University in 1996 and a B.S. in Mechanical Engineering from Andhra University, India. He has authored numerous international journal publications and holds over 15 patent families with several in process. Throughout his career, he has been active in technology education and was a part time faculty member at Northeastern University in Boston, Massachusetts.
John Vickers serves as the principal technologist in the area of advanced materials and manufacturing within the Space Technology Mission Directorate at NASA Headquarters. He also serves as the associate director of the Materials and Processes Laboratory at the NASA Marshall Space Flight Center and as the manager of NASA’s National Center for Advanced Manufacturing with operations in Huntsville, Alabama and New Orleans, Louisiana. He has over 30 years of experience in materials and manufacturing -- research and development, engineering, and production operations for propulsion, spacecraft, and scientific space systems. As principal technologist, he leads the nationwide NASA team to develop advanced manufacturing technology strategies to achieve the goals of NASA’s missions. He is the Agency representative to the National Science and Technology Council, Subcommittee on Advanced Manufacturing and the Subcommittee on Critical and Strategic Mineral Supply Chains. He is a founding member of the Manufacturing USA - National Network for Manufacturing Innovation program and the Interagency Advanced Manufacturing National Program Office. His many awards include NASA’s Exceptional Achievement Medal, NASA’s Outstanding Leadership Medal and the AIAA Holger Toftoy award. He is a fellow of SME. He holds a Bachelor of Science in Engineering from the University of Alabama in Huntsville.
Steve Walls provides production engineering build architecture expertise that advances production technologies and supports the long-term vision of the company and the Boeing engineering and scientific communities. In this role he advances design processes to enable advanced product and production system definition and development. For 30 years Steve has provided definition and advances in the specialty field of large scale structural integration of commercial transports (747, 767, 777, and 787) – specifically dimensional engineering and management. Steve’s current technical focus is in the application of systems engineering science to the new design of full scope production system architecture for commercial air transport development programs. Specifically this includes adaption of Petri Net modeling for developing and analyzing a worldwide distributed production system, establishment of a multi-domain production system analytical framework in support of design maturity and trade study efforts, and establishing a baseline system concepts definition for Boeing Production Systems, culminating in a rich validated set of Production System requirements and measures.