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# ERVA: Leadership Support Quotes

## Executive Committee Quotes

**Dorota A. Grejner-Brzezinska**

ERVA Principal Investigator

Senior Associate Vice President for Research - Corporate and Government Partnerships

The Ohio State University

“ERVA is an incredible, once-in-a-lifetime opportunity to be a part of something truly transformative. It enables the engineering community to unify under the common theme of working together to address the society’s greatest challenges.”

“The solutions to the most complex research, technological and societal challenges cannot be accomplished entirely within one academic discipline; they require contributions from neighboring disciplines as well. ERVA is a new, independent, diverse and collaborative platform that will enable just that.”

”ERVA demonstrates engineering leadership but also shows the necessity for multi-disciplinary and multi-sector partnerships. It will illuminate the role that engineering plays not only in technological progress, but also in the overall advancement of society.”

**Tony Boccanfuso**

ERVA Co-Principal Investigator

President and CEO

UIDP

“The big challenges we face as a nation require interdisciplinary approaches and engineering R&D to develop effective solutions. ERVA will serve as an intellectual lodestar to identify opportunities for maximum impact and to catalyze the use-inspired research we need for new products and services that improve the human condition.”

**Barry W. Johnson**

ERVA Co-Principal Investigator

ERVA Executive Director

L. A. Lacy Distinguished Professor of Engineering

University of Virginia

“ERVA will achieve its goals through the engagement of a diverse, inclusive, and multidisciplinary engineering and science community to ensure that the best ideas are identified, regardless of their source.”

“ERVA will assist NSF in identifying innovative ideas for new fundamental engineering research programs that will enable solutions to many of society’s most pressing challenges. ERVA is proactive rather than reactive in its pursuits to enable NSF to achieve its vision of being the global leader in research and innovation.”

“ERVA will not only stimulate new and emerging engineering research, but through those programs, future students will be educated to support our technology workforce of the future.”

“It is critical to our nation’s technological and economic success that NSF achieve its vision of being the global leader in research and innovation, and ERVA will be a driving force in helping NSF reach that accomplishment.”

**Charles Johnson-Bey**

ERVA Co-Principal Investigator

Senior Vice President

Booz Allen Hamilton

“The idea that manifests into the exact solution the U.S. needs will likely come from a voice that does not have a seat at the table today. This is the reason why ERVA has representation from all 50 states and three U.S. territories.”

“Advancing the capability of the United States to meet complex global challenges is the reason why ERVA will focus on the most difficult and extremely impactful technologies.”

“ERVA has put together a world-class team that is poised to capture the imagination of this generation that will not only determine the vision of engineering research but also develop the means to translate theory into practice.”

“ERVA represents a call to action!”

“The NSF has taken another bold step to drive the nation’s engineering vision for the future.”

**Edl Schamiloglu**

ERVA Co-Principal Investigator

Distinguished Professor of Electrical and Computer Engineering and Associate Dean for Research and Innovation - School of Engineering

University of New Mexico

“Theodore von Kármán, 1962 National Medal of Science recipient, is quoted as having said, ‘Scientists study the world as it is, engineers create the world that never has been.’ ERVA is an opportunity for the community to imagine the world that never has been.”

## Advisory Board Quotes

**Pramod P. Khargonekar**

Distinguished Professor of Electrical Engineering and Computer Science and Vice Chancellor for Research

University of California, Irvine

“As we confront complex, interconnected societal challenges in many aspects of our lives, I believe it is extraordinarily important for us to imagine and articulate exciting, attractive, and beneficial visions of the future of engineering research. I am very pleased to be able to collaborate with the ERVA stakeholders to help it be maximally successful.”

**Darryll Pines**

President

University of Maryland College Park

“ERVA is an opportunity to be the thought leaders for the grand challenges facing engineering and society in the 21st century.”

**Dan Reed**

Senior Vice President for Academic Affairs

University of Utah

ERVA Advisory Board

“It’s been said that the best way to predict the future is to invent it. ERVA is about helping the engineering community imagine, then realize, a better future for our world.”

**Grace Wang**

Executive Vice President for Research, Innovation and Knowledge Enterprise

The Ohio State University

ERVA Advisory Board

“ERVA is creating an exciting platform for the engineering research community to look into the future collectively and collaboratively, and to focus our most impactful endeavors on addressing national and global challenges.”

## Standing Council Quotes

**Erin Santini Bell**

Professor and Chair, Department of Civil and Environmental Engineering

University of New Hampshire

“ERVA provides a platform for the engineering community to collaborate in an interdisciplinary way to address the challenges and opportunities facing society and the planet. I am honored and thrilled to participate in this ground-breaking effort to develop innovative solutions for a smart, community-centered and sustainable future."

**Rosalyn W. Berne**

P.I., Online Ethics Center

Associate Professor, Department of Engineering and Society, School of Engineering and Applied Sciences

University of Virginia

“This is a most important time in our country to be thinking about the future of engineering research, innovation, education, and entrepreneurial endeavors. As an ethicist, I am heartened to know that ethics will be considered in that process.”

**Raheem Beyah**

Dean and Southern Company Chair, College of Engineering

Georgia Institute of Technology

“As leaders in the engineering research community, it is imperative that we work together to advance innovative, impactful and interdisciplinary research to find solutions to national and global challenges. ERVA gives us an opportunity to align our collective research mission with stakeholders across industry, government and academia to improve the human condition.”

**Roger T. Bonnecaze**

William and Bettye Nowlin Chair in Engineering, McKetta Department of Chemical Engineering

University of Texas at Austin

“ERVA is more important than ever as the nation faces unprecedented challenges in terms of health, energy, climate, and security, and it will help prepare us to meet these challenges.”

**Gerardine G. Botte**

Professor and Whitacre Department Chair, Chemical Engineering

Texas Tech University

“ERVA is a tremendous opportunity for the engineering community to work together and identify transformational solutions to address major society challenges.”

**Jaime Camelio**

Associate Dean for Research, Innovation and Entrepreneurship, College of Engineering

University of Georgia

“Having a space like ERVA to discuss the future in a fast-changing society is fundamental. I see it as a unique opportunity to share different backgrounds and identify the nation’s direction.”

**C. Michael Carolina**

Executive Director

Oklahoma Center for the Advancement of Science and Technology

“I am excited to join the ERVA team and about the opportunity to help accelerate collaborative engineering research leading to innovations that translate to scientific leadership that benefits the public.”

**Jennifer M. Case**

Professor and Head of the Department of Engineering Education

Virginia Tech

“We are facing enormous challenges in our society that require a revisioning of engineering research, including the still-emerging field of engineering education research. I feel tremendously privileged to be part of this team to inform the strategic investment of funds that can fuel the developments that are needed to sustain our future.”

**Basil Hassan**

Director and Deputy Chief Research Officer

Sandia National Laboratories

“I look forward to working with the ERVA team to help transform the engineering community to collectively think about how we conduct and deliver future innovative research.”

**Angelique Johnson**

CEO

MEMStim, LLC

"I am excited to be a part of this impactful initiative to shape the future of Science through ERVA."

**Michael Khonsari**

Dow Chemical Endowed Chair and Professor of Mechanical Engineering; Director, Center for Rotating Machinery

Louisiana State University

“NSF is truly a trendsetting agency that invests in the future of science and engineering. It is an honor to serve as a member of ERVA’s Standing Council to provide feedback to NSF in pursuit of tackling global challenges that face our society.”

**Sangtae Kim**

Jay and Cynthia Ihlenfeld Head and Distinguished Professor of Chemical Engineering

Purdue University

“ERVA is poised to play an important advisory role in the optimal allocation of R&D resources to address society’s greatest challenges. I am honored to be serving on the inaugural Standing Council and will draw upon my past leadership experiences in industry (bio-pharmaceutical) and government (NSF) to help us deliver on the vision for society.”

**Vijay Kumar**

Family Dean of Penn Engineering with appointments in the Departments of Mechanical Engineering and Applied Mechanics, Computer and Information Science, and Electrical and Systems Engineering

University of Pennsylvania

“If the last year has taught us anything, it is that engineering matters! More than ever, engineering is central to the grand challenges confronting society, and I am delighted to see ERVA providing national leadership and am proud to be part of this initiative.”

**Nancy G. Love**

Borchardt and Glysson Collegiate Professor, Department of Civil and Environmental Engineering

University of Michigan

“I'm excited to be a member of the ERVA Standing Council. ERVA has an opportunity to transform engineering research and learning on its head, ensuring that we develop future generations of engineers that are both technically competent and innovative, as well as culturally competent in how they do their work both domestically and globally.”

**William S. Marras**

Honda Chair Professor, Spine Research Institute

The Ohio State University

“The ERVA effort is a truly transformative opportunity to integrate innovative and diverse engineering and science approaches to address our nation's grand challenges.”

**Erik Meijer**

Engineering Director

Facebook

“In order to maintain the leading position of the U.S. in the scientific community, identifying and fostering transformational engineering research is of utmost importance. I'm honored to be part of this organization and I'm looking forward to help shape the future of future research for our country.”

**Patrick F. Mensah, Sr.**

Associate Dean for Research, Graduate Programs and Faculty Development, College of Sciences and Engineering

Southern University A&M College

“ERVA presents a tremendous opportunity to strengthen connectivity amongst diverse stakeholders to coordinate transformative big ideas research agendas that address societal problems in our nation with broader impacts in engineering novel solutions.”

**Chandrasekhar "Spike" Narayan**

Director, Science and Technology and Global University Partnerships

IBM Research – Almaden

“Our nation is going through a digital transformation at scale, and the skills needed to preserve our leadership are undergoing significant change. ERVA is offering a great opportunity to participate in this important endeavor. I am excited to be part of this activity to drive change.”

**Zhihua Qu**

Pegasus Professor and Chair of ECE

University of Central Florida

“ERVA enables all the partnering institutions and their engineering departments to work across disciplines, collaborate as one team, and solve engineering grand challenges by identifying, advocating, and implementing transformative engineering research initiatives.”

**Oliver Schmitz**

Thomas and Suzanne Werner Professor in Engineering Physics and Associate Dean for Research and Graduate Affairs, College of Engineering

University of Wisconsin-Madison

“ERVA is a network of excellency that I am proud to be able to join. The transformation of engineering research in the U.S. is a goal that is timely and important, and ERVA is poised to lead and be successful in this effort.”

**Alison L. Sheets-Singer**

Principal Researcher, Nike Sport Research Lab

Nike, Inc.

“Only by working together can we achieve the engineering research breakthroughs and innovations that are essential for addressing the profound challenges facing the United States and world today. I’m excited about the future that ERVA will help create, and grateful to be a part of this team.”

**Donnell Walton**

Director, Corning Technology Center-Silicon Valley

Corning Research and Development Corporation

“I welcome the opportunity to influence engineering education for the next generation of argonauts who must navigate unprecedented complexity to address our most important societal challenges.”

***About ERVA***

*The Engineering Research Visioning Alliance (ERVA) is a neutral convener that helps define future engineering research directions. Funded by the National Science Foundation (NSF) Directorate for Engineering, ERVA is a diverse, inclusive and engaged partnership that enables an array of voices to impact national research priorities. The five-year initiative convenes, catalyzes and enables the engineering community to identify nascent opportunities and priorities for engineering-led innovative, high-impact, cross-domain research that addresses national, global and societal needs. Learn more at* [*www.ERVAcommunity.org*](http://www.ERVAcommunity.org)*.*

LinkedIn: <https://www.linkedin.com/company/ervacommunity>

Facebook: <https://www.facebook.com/ERVAcommunity>

Twitter: <https://twitter.com/ervacommunity>

Hashtag: #ERVAcommunity

***About the National Science Foundation (NSF)***

*The U.S.* [*National Science Foundation*](https://www.nsf.gov/) *propels the nation forward by advancing fundamental research in all fields of science and engineering. NSF supports research and people by providing facilities, instruments and funding to support their ingenuity and sustain the U.S. as a global leader in research and innovation. With a fiscal year 2021 budget of $8.5 billion, NSF funds reach all 50 states through grants to nearly 2,000 colleges, universities and institutions. Each year, NSF receives more than 40,000 competitive proposals and makes about 11,000 new awards. Those awards include support for cooperative research with industry, Arctic and Antarctic research and operations, and U.S. participation in international scientific efforts.*

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