



Queen Elizabeth Prize
for Engineering



NATIONAL ACADEMY
OF ENGINEERING®

Engineering the Future

THE ROLE OF AI AND BIOTECH

Thursday, March 14 • 9:00 AM–11:00 AM

National Academy of Sciences Building

2101 Constitution Avenue NW, Washington, DC 20418 • Room 120

Keynote Presentation by



John Lach

Dean, School of Engineering and Applied
Science, The George Washington University

Remarks by

Lord Browne of Madingley

Chairman, Queen Elizabeth Prize
for Engineering Foundation

Dr. John L. Anderson

President, National Academy
of Engineering

Dr. Alton D. Romig, Jr.

Executive Officer, National
Academy of Engineering

Panels

Engineering the Future: Revolutionary AI Innovations and Their Impact



Moderator:

Kellee Wicker

Director, Science and
Technology Innovation
Program, the Wilson Center



Dr. Missy Cummings

Professor and Director
of the George Mason
University Autonomy and
Robotics Center (MARC)



Dr. Rama Chellappa

Bloomberg Distinguished
Professor, Department of
Electrical and Computer
Engineering, Chief Scientist,
Johns Hopkins University



**Dr. Swami
Sivasubramanian**

Vice President for Data and
Machine Learning Services at
Amazon Web Services (AWS)

The Evolution of Biotechnology: Lessons Learned from a Global Pandemic



Moderator:

Victoria Jaggard

Health and Science Deputy
Editor, The Washington Post



Dr. Bruce Tromberg

Director, National Institute
of Biomedical Imaging and
Bioengineering, National
Institutes of Health



Dr. Gary Disbrow

Director, Biomedical Advanced
Research and Development
Authority (BARDA), Deputy
Assistant Secretary for
Preparedness and Response,
Administration for Strategic
Preparedness and Response
(ASPR), US Department of Health
and Human Services (HHS)



Adil Alaoui

Director, Health Information
Technology and Operations,
Innovation Center for
Biomedical Informatics,
Georgetown University