

WASHINGTON STATE Academy of Sciences

2021-2022 Membership Directory

Revised November 2021



Members of the Washington State Academy of Sciences represent a broad diversity of scientific disciplines and draw on experience in academia, government, and both non-profit and commercial sectors. Similar to the National Academies of Sciences, Engineering and Medicine, the membership provides expert scientific and technical advice to inform public policymaking in the State of Washington.

Board of Directors

Roger Myers, PRESIDENT

Aerojet Rocketdyne
(RETIRED)

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Pacific Northwest National Laboratory
(EMERITUS)

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Pacific Northwest National Laboratory
(RETIRED)

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Washington State University

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USGS/University of Washington

Suresh Baskaran

Pacific Northwest National Laboratory

Celestina Barbosa-Leiker

Washington State University

Ann Bostrom

University of Washington

Douglas Call

Washington State University

Richard Catalano, Jr.

University of Washington
(EMERITUS)

Howard Frumkin

University of Washington
(EMERITUS)

Patricia Hunt

Washington State University

Ruby Leung

Pacific Northwest National Laboratory

Lee Huntsman

University of Washington
(EMERITUS)

Ron Mittelhammer

Washington State University

John Stark

Washington State University

Donna Gerardi Riordan, EXECUTIVE DIRECTOR

Ex-officio

Nancy Allbritton*Professor of Bioengineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2020

Field(s) of Expertise: Biomedical Microdevices

Russell Allgor*Chief Scientist, Global Delivery Services***Amazon**

Section 2: Engineering and Technology

Inducted to WSAS 2021

National Academy of Engineering (NAE), 2021

Field(s) of Expertise: Industrial, Manufacturing, and Operational Systems; Chemical Engineering

Thomas E. Anderson*Warren Francis and Wilma Kolm Bradley Chair in Computer Science and Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2016

National Academy of Engineering (NAE), 2016

Field(s) of Expertise: Computer Science

E. Virginia Armbrust*Director and Professor, School of Oceanography***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Genomics and Ecology of Marine Diatoms

Steven Flynn Ashby*Laboratory Director***Pacific Northwest National Laboratory**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Computational Science

Brian F. Atwater*Geologist***U.S. Geological Survey**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2007

Field(s) of Expertise: Geological Histories of Earthquakes, Tsunamis, and Floods

Donald R. Baer*Laboratory Fellow Emeritus***Pacific Northwest National Laboratory**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Chemical Physics

Joel Baker*Professor and Port of Tacoma Chair in Environmental Sciences, and Science Director of the Urban Waters Center***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Environmental Chemistry and Engineering; Assessment, Modeling, and Restoration of Urban Water

Nathan Baker*Laboratory Fellow***Pacific Northwest National Laboratory**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Data Science, Applied Mathematics

Amit Bandyopadhyay*Herman and Brita Lindholm Endowed Chair Professor***Washington State University**

Section 2: Engineering and Technology

Inducted to WSAS 2017

Field(s) of Expertise: Materials Science and Engineering, Manufacturing

Francois Baneyx*Vice Provost for Innovation, Director of CoMotion, Charles W.H. Matthaei Professor of Chemical Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2016

Field(s) of Expertise: Synthetic Biology, Nanotechnology, Molecular Engineering, and Materials Science

Gustavo V. Barbosa-Cánovas

Professor of Food Engineering; Director for Nonthermal Processing of Food

Washington State University

Section 2: Engineering and Technology

Inducted to WSAS 2015

Field(s) of Expertise: Food Engineering

Celestina Barbosa-Leiker

Vice Chancellor for Research

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Addiction

James M. Bardeen

Professor Emeritus

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2012

National Academy of Sciences (NAS), 2012

Field(s) of Expertise: General Relativity and

Cosmology

Suresh Baskaran

Director, Research Partnerships

Pacific Northwest National Laboratory

Section 2: Engineering and Technology

Inducted to WSAS 2016

Field(s) of Expertise: Energy, Transportation

Timothy V. Baszler

Professor and Executive Director

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Infectious Diseases,

Veterinary Pathology

Katherine Beckett

Professor, Sociology & Law, Societies, Justice Program

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Sociology, Criminal Justice

Shirley A. A. Beresford

Professor Emerita

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Epidemiology

Bobbie Berkowitz

Dean and Professor Emerita

Columbia University School of Nursing

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2002

Field(s) of Expertise: Public Health, Health

Disparities

Philip A. Bernstein

Distinguished Scientist

Microsoft Research

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2003

Field(s) of Expertise: Computer Science (Data Management and Distributed Computing)

Peter Bethell

Senior Principal – Mineral Processing

Marshall Miller and Associates

Section 2: Engineering and Technology

Inducted to WSAS 2019

National Academy of Engineering (NAE), 2014

Field(s) of Expertise: Mineral Processing

Sue Biggins

Associate Director, Division of Basic Sciences and Investigator, HHMI

Fred Hutchinson Cancer Research Center, HHMI

Section 4: Health Sciences

Inducted to WSAS 2015

National Academy of Sciences (NAS), 2015

Field(s) of Expertise: Genetics

Cecilia M. Bitz

Professor, Department of Atmospheric Sciences

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Atmospheric Sciences

P. Dee Boersma

Wadsworth Endowed Chair in Conservation Science

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Sea Bird Reproduction

Cathryn Booth-LaForce

Professor, Child, Family, and Population Health Nursing

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Effects of Environmental Inputs on the Development of Children

Anjan Bose

Regents Professor, Distinguished Professor of Electric Power Engineering

Washington State University

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2003

Field(s) of Expertise: Electrical Engineering

Susmita Bose

Herman and Brita Lindholm Endowed Chair Professor

Washington State University

Section 2: Engineering and Technology

Inducted to WSAS 2017

Field(s) of Expertise: Biomaterials, 3D Printing, Bone Implants and Drug Delivery

Ann Bostrom

Weyerhaeuser Endowed Professor of Environmental Policy

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Risk Perception and Communication

Theodore W. Bowyer

Laboratory Fellow

Pacific Northwest National Laboratory

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Nuclear Physics

Michael Bragg

Dean Emeritus and Professor of Aeronautics and Astronautics

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2018

Field(s) of Expertise: Aerodynamics, Flight Mechanics, Aircraft Icing

Kelly A. Brayton

Professor of Microbial Genomics

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Vector-Borne Disease

Christopher Bretherton

Michael Wold and Anne Dinning Professor of Atmospheric Science and Applied Mathematics

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2019

National Academy of Sciences (NAS), 2019

Field(s) of Expertise: Climate Modeling

Don E. Brownlee

Professor of Astronomy

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2010

National Academy of Sciences (NAS), 1995

Field(s) of Expertise: Origin and Evolution of Planetary Materials, Planets and Planetary Systems

John A. Browse

Regents Professor of Biochemistry and Molecular Plant Sciences

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Plant Biochemistry

Dedra Stefanie Buchwald

Professor, Elson S. Floyd School of Medicine

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Epidemiology

Elizabeth Buffalo

Associate Professor, Department of Physiology and Biophysics

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Memory and Cognition

Morris Bullock

Laboratory Fellow and Director, The Center for Molecular Electrocatalysis

Pacific Northwest National Laboratory

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Chemistry, Homogeneous Catalysis, Molecular Electrocatalysis

Krzysztof Burdzy

Professor of Mathematics

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Probability Theory and Related Problems in Mathematical Analysis, Combinatorics and Dynamical Systems

Douglas Call

Professor of Molecular Epidemiology

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2017

Field(s) of Expertise: Microbiology

Allison A. Campbell

Director

Pacific Northwest National Laboratory (retired)

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Developing Capability and Program Development, Biomimetics

Charles T. Campbell

B. Seymour Rabinovitch Endowed Chair in Chemistry

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Development of Chemical Catalysts and Techniques for Characterizing Material Surfaces

Richard F. Catalano, Jr.

Professor, Co-Founder, Social Development Research Group

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Youth Development, Study and Prevention of Behavioral Health Problems

Charles Chavkin

Allan and Phyllis Treuer Endowed Chair in Pain Research and Professor of Pharmacology

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Molecular Basis of Drug Addiction

Xiangli Chen

Senior Advisor

McKinsey & Company

Section 2: Engineering and Technology

Inducted to WSAS 2018

National Academy of Engineering (NAE), 2017

Field(s) of Expertise: Innovation Strategy, Product Management, Industrial Laser Applications

Lili Cheng

Corporate Vice President and Distinguished Engineer, Microsoft AI and Research

Microsoft Corporation

Section 2: Engineering and Technology

Inducted to WSAS 2021

National Academy of Engineering (NAE), 2021

Field(s) of Expertise: Human-Computer Interaction

Sapna Cheryan*Professor of Psychology***University of Washington**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Psychological and Cognitive Sciences

Dianne Chong*Vice-President, Engineering, Operations & Technology***The Boeing Company (retired)**

Section 2: Engineering and Technology

Inducted to WSAS 2017

National Academy of Engineering (NAE), 2017

Field(s) of Expertise: Materials Engineering and Manufacturing

Dimitri Christakis*Director, Center for Child Health, Behavior, and Development***Seattle Children's Research Institute**

Section 4: Health Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Pediatrics, Child Development, Health Services, Health Policy

Brad R. Colman*Director of Science***The Climate Corporation**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Pacific Northwest Weather and Weather Prediction

R. James Cook*Professor Emeritus and Endowed Chair in Wheat Research***Washington State University**

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1993

Field(s) of Expertise: Plant Pathology

Brandi Cossairt*Professor of Chemistry***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Chemistry; Nanoscience

Larry R. Dalton*B. Seymour Rabinovitch Chair in Chemistry and George Kauffman Professor of Electrical Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2012

Field(s) of Expertise: Advancement of Sub-Wavelength Photonics by Integrating Electro-optic Materials with Silicon Photonics and Plasmonics

Thomas Daniel*Professor of Biology and Komen Endowed Chair***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Neuromuscular Control of Animal Locomotion, Biomechanics, and Neural Engineering

Jacqueline E. Darroch*Senior Fellow***Guttmacher Institute**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 1995

Field(s) of Expertise: Social Demography

Trisha Davis*Professor and Chair, Department of Biochemistry***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Protein Interactions

James J. De Yoreo

Chief Scientist, Materials Synthesis and Simulations

Pacific Northwest National Laboratory

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2015

Field(s) of Expertise: Experimental Physics

George Demiris

PIK (Penn Integrates Knowledge) University Professor

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Clinical Informatics, Aging and Technology

Li Deng

Chief Artificial Intelligence Officer

Citadel America LLP

Section 2: Engineering and Technology

Inducted to WSAS 2019

Field(s) of Expertise: Artificial Intelligence

Don A. Dillman

Regents Professor and Deputy Director, Social and Economic Sciences Research Center

Washington State University

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Sociology

Cynthia Dougherty

Professor, Biobehavioral Nursing and Health Systems

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Cardiology

Glen Duncan

Professor and Chair, Department of Nutrition and Exercise Physiology

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Exercise Physiology; Epidemiology, Spatial Epidemiology, and Twin Methods

Susan Dumais

Technical Fellow and Director of Microsoft Research Labs in New England, New York City and Montreal

Microsoft Research

Section 2: Engineering and Technology

Inducted to WSAS 2011

National Academy of Engineering (NAE), 2011

Field(s) of Expertise: Information Retrieval, Web Search, Human-Computer Interaction

Kristie Ebi

Professor, The Center for Health and the Global Environment

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Climate Variability, Change, and Health/Risks and Responses; Co-Benefits of Mitigation Policies and Technologies

Evan Eichler

Professor of Genome Sciences

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2012

National Academy of Sciences (NAS), 2012

Field(s) of Expertise: Genome Science

Robert N. Eisenman

Member, Division of Basic Sciences

Fred Hutchinson Cancer Research Center

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1998

Field(s) of Expertise: Molecular Genetics of Cancer

Christopher J. Elias

President, Global Development

Bill and Melinda Gates Foundation

Section 4: Health Sciences

Inducted to WSAS 2013

National Academy of Medicine (NAM), 2013

Field(s) of Expertise: Improving Global Health by Ensuring that Innovations in Science and Technology are Available to Low Income Groups and Developing Countries

Mark Ellis*Professor of Geography***University of Washington**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Geography of Urban Places,
Immigration, Race, and Ethnicity**Adrienne Fairhall***Associate Professor, Physiology and Biophysics***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Neurobiology

Elaine Faustman*Professor and Director, The Institute for Risk**Analysis and Risk Communication***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Toxicology

Joseph Felsenstein*Professor, Department of Genome Sciences and**Department of Biology***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1999

Field(s) of Expertise: Evolutionary Biology

Stanley Fields*Professor, Department of Genome Sciences and**Department of Medicine; Investigator, Howard**Hughes Medical Institute***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2000

Field(s) of Expertise: Genetics and Genomics

Bruce A. Finlayson*Professor Emeritus of Chemical Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 1994

Field(s) of Expertise: Chemical Engineering

Thomas R. Fleming*Professor, Department of Biostatistics***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2013

National Academy of Medicine (NAM), 2013

Field(s) of Expertise: Design, Conduct, and

Analysis of Clinical Trials; Survival Analysis

Karl N Fleming*President***KNF Consulting Services LLC**

Section 2: Engineering and Technology

Inducted to WSAS 2020

National Academy of Engineering (NAE), 2020

Field(s) of Expertise: Probabilistic Risk and

Reliability Assessment of Complex Engineered
Systems**James Fredrickson***Chief Scientist***Pacific Northwest National Laboratory**

Section 3: Biological Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Microbial Ecology and

Biogeochemistry

Brian French*Berry Family Distinguished Professor of**Educational Psychology***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Psychological and

Educational Measurement; Research Methods and
Statistics

Stanley C. Froehner

Professor and Chair, Department of Physiology & Biophysics

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Biochemistry, Neurobiology, and Cell Biology

Howard Frumkin

Professor Emeritus, Environmental and Occupational Health Sciences

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2017

National Academy of Medicine (NAM), 2021

Field(s) of Expertise: Public Health and the Environment

Rita Fuchs-Lokensgard

Director, Alcohol and Drug Abuse Research Program

Washington State University

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Neuroscience

Dayong Gao

Origincell Endowed Professor of Mechanical Engineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2017

Field(s) of Expertise: Mechanical Engineering and Biomedical Engineering

John Geyman

Professor Emeritus of Family Medicine

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2019

National Academy of Medicine (NAM), 1985

Field(s) of Expertise: Family Medicine

Cecilia Giachelli

Professor and W. Hunter and Dorothy Simpson Endowed Chair

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Biomaterials and Regenerative Medicine, Molecular and Cellular Engineering

Paul H. Gilbert

Director Emeritus

Parsons Brinckerhoff Inc.

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 1997

Field(s) of Expertise: Civil Engineering and Construction, Program and Project Management of Complex Projects

David Ginger

Alvin L. and Verla R. Kwiram Endowed Professor of Chemistry

Dept of Chemistry, and UW Clean Energy Institute

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2018

Field(s) of Expertise: Physical and Materials Chemistry, especially of New Materials for Clean Energy and Optoelectronics Applications

Jay Giri

Director

GGM Consulting (retired)

Section 2: Engineering and Technology

Inducted to WSAS 2015

Field(s) of Expertise: Energy Management Systems

Michael Goodchild

Emeritus Professor of Geography

University of California, Santa Barbara

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 2002

Field(s) of Expertise: Geography, GIS

Lisa Graumlich

Dean Emeritus, College of the Environment & Mary Laird Wood Professor, School of Environmental and Forest Sciences

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Earth Science; Ecology

E. Peter Greenberg

Professor of Microbiology

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2004

Field(s) of Expertise: Microbiology

Mark Groudine

Member, Division of Basic Sciences, Special Advisor to the Director's Office

Fred Hutchinson Cancer Research Center

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2001 & NAM 2003

Field(s) of Expertise: Molecular and cellular biology

Elizabeth Halloran

Professor of Epidemiology and Biostatistics

University of Washington/Fred Hutchinson Cancer Research Center

Section 4: Health Sciences

Inducted to WSAS 2020

National Academy of Medicine (NAM), 2020

Field(s) of Expertise: Biostatistics

Dennis L. Hartmann

Professor, Atmospheric Sciences

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2016

National Academy of Sciences (NAS), 2016

Field(s) of Expertise: Atmospheric Science

Caroline S. Harwood

Professor, Department of Microbiology

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2009

Field(s) of Expertise: Understanding how Bacteria Integrate Diverse Environmental Signals and Diverse Metabolic Modules to Function at the Whole Cell Level

J. David Hawkins

Emeritus Endowed Professor of Prevention

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Prevention of Child and Adolescent Behavioral Health Problems, Crime Prevention, Substance Abuse Prevention, Longitudinal Research, Preventive Intervention Research, Social Development

Maxine Hayes

Washington State Health Officer

Washington State Department of Health (retired)

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2008

Field(s) of Expertise: Public Health, Population Health, Pediatrics, Maternal Child Health

Patrick Heagerty

Professor of Biostatistics

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2021

National Academy of Medicine (NAM), 2021

Field(s) of Expertise: Biostatistics; Clinical and Population Research

Blayne R. Heckel

Professor Emeritus, Department of Physics

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Gravitational Phenomena - Time-Reversal Symmetry Violation

Margaret Heitkemper*Chair, Biobehavioral Nursing and Health Systems***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2013

National Academy of Medicine (NAM), 2015

Field(s) of Expertise: Irritable Bowel Syndrome (IBS)

Steve Henikoff*Investigator, Howard Hughes Medical Institute***Fred Hutchinson Cancer Research**

Section 4: Health Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 2005

Field(s) of Expertise: Genetics and Genomics

Ray Hilborn*Professor of Fisheries Management, Aquatic and Fishery Sciences***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Natural Resource Management and Conservation

Laura Hill*Vice Provost and Professor, Department of Human Development***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Prevention, Implementation, Evidence-based Programs

Kerry Wayne Hipps*Regents Professor of Chemistry, Materials Science, and Engineering***Washington State University**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Chemistry

Jonathan Himmelfarb*Director, Kidney Research Center***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Medicine, Bioengineering

Charles Hirschman*Boeing International Professor***University of Washington**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Sociology

Eric Holland*Senior VP and Director of Human Biology***Fred Hutchinson Cancer Research Center**

Section 4: Health Sciences

Inducted to WSAS 2018

National Academy of Medicine (NAM), 2009

Field(s) of Expertise: Mouse Models of Cancer, Brain Tumors

King K. Holmes*Professor, Director of Research and Faculty Development, Department of Global Health***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 1987

Field(s) of Expertise: AIDS and STDs

John D. Hooper*Senior Principal and Director of Earthquake Engineering***Magnusson Klemencic Associates**

Section 2: Engineering and Technology

Inducted to WSAS 2020

Field(s) of Expertise: Structural Engineering, Earthquake Engineering

Robert Horsch*Advisor, Global Commission on Adaptation***World Resources Institute**

Section 3: Biological Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Plant Genetic Transformation

Raymond B. Huey*Professor Emeritus of Biology***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Evolutionary Physiology

Scot Hulbert

Associate Dean and Director, Agricultural Research Center

Washington State University

Section 3: Biological Sciences
Inducted to WSAS 2021

Field(s) of Expertise: Genetics, Agricultural Sciences

Patricia Ann Hunt

Meyer Distinguished Professor, School of Molecular Bioscience

Washington State University

Section 3: Biological Sciences
Inducted to WSAS 2015

Field(s) of Expertise: Aneuploidy

Lee Huntsman

President Emeritus

University of Washington

Section 4: Health Sciences
Inducted to WSAS 2011

Field(s) of Expertise: Bioengineering, Leadership of Scientific and Policy Initiatives in the State of Washington

Daniel Jaffe

Professor and Chair of Physical Science Division

University of Washington – Bothell

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2021

Field(s) of Expertise: Environmental and Atmospheric Chemistry, Air Pollution; Climate Science and Environmental Policy

Janet Jansson

Laboratory Fellow and Chief Scientist for Biology

Pacific Northwest National Laboratory

Section 3: Biological Sciences
Inducted to WSAS 2015

Field(s) of Expertise: Plant, Soil, and Microbial Sciences

Samson A. Jenekhe

Boeing - Martin Professor of Chemical Engineering

University of Washington

Section 2: Engineering and Technology
Inducted to WSAS 2013

Field(s) of Expertise: Organic and Printed Electronics

Forrester T. Johnson

Senior Technical Fellow

The Boeing Company

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2008

National Academy of Engineering (NAE), 2000
Field(s) of Expertise: Computational Fluid Dynamics

Monica Kirkpatrick Johnson

Professor and Chair, Department of Sociology

Washington State University

Section 5: Social and Behavioral Sciences
Inducted to WSAS 2016

Field(s) of Expertise: Sociology

Cheryl Kaiser

Professor and Chair, Department of Psychology

University of Washington

Section 5: Social and Behavioral Sciences
Inducted to WSAS 2021

Field(s) of Expertise: Social Psychology; Intersection of Law, Organizational Science, and Political Science

David B. Kaplan

Director, Institute for Nuclear Theory

University of Washington

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2010

National Academy of Sciences (NAS), 2013
Field(s) of Expertise: Quantum Field Theory

Gary S. Kaplan

Chairman and CEO

Virginia Mason Health System

Section 5: Social and Behavioral Sciences
Inducted to WSAS 2014

National Academy of Medicine (NAM), 2013
Field(s) of Expertise: Internal Medicine

Anna Karlin

Bill & Melinda Gate Chair in Computer Science & Engineering

University of Washington

Section 2: Engineering and Technology
Inducted to WSAS 2021

National Academy of Sciences (NAS), 2021
Field(s) of Expertise: Theoretical Computer Science

Kristina B. Katsaros

Former Director, Atlantic Oceanographic and Meteorological Laboratory, retired

Northwest Research Associates Inc, Emeritus, and NOAA (retired)

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2008

National Academy of Engineering (NAE), 2001
Field(s) of Expertise: Atmospheric and Oceanic Sciences

Joel D. Kaufman

Professor of Epidemiology

University of Washington

Section 4: Health Sciences
Inducted to WSAS 2017

Field(s) of Expertise: Air Pollution and Cardiovascular Health

Tom Kawula

Professor and Director, Paul G. Allen School for Global Health

Washington State University

Section 4: Health Sciences
Inducted to WSAS 2019

Field(s) of Expertise: Zoonotic Infectious Diseases

Bruce D. Kay

Laboratory Fellow

Pacific Northwest National Laboratory

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2017

Field(s) of Expertise: Chemical Physics

Christopher Keane

Vice President for Research

Washington State University

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2019
Field(s) of Expertise: Physics and Astronomy

Sarah Keller

Professor of Chemistry

University of Washington

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2011

Field(s) of Expertise: Inhomogeneous Distribution of Lipids within Membranes that Model Cell Membranes

Munira Khalil

Leon C. Johnson Professor and Chair of Chemistry

University of Washington

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2021

Field(s) of Expertise: Physical Chemistry; Ultrafast Spectroscopy

Susan Kieffer

Charles R. Walgreen, Jr., University Professor, Emerita

University of Illinois at Urbana-Champaign

Section 1: Physical and Mathematical Sciences
Inducted to WSAS 2019

National Academy of Sciences (NAS), 1986
Field(s) of Expertise: Geological Fluid Dynamics

Ronald Klemencic

CEO

Magnusson Klemencic Associates Inc

Section 2: Engineering and Technology
Inducted to WSAS 2020

National Academy of Engineering (NAE), 2020
Field(s) of Expertise: Structural Engineering, Seismic Engineering

Rachel Klevit*Professor of Biochemistry***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2016

National Academy of Sciences (NAS), 2021

Field(s) of Expertise: Biochemistry

Keith P. Klugman*Director for Pneumonia***Bill and Melinda Gates Foundation**

Section 4: Health Sciences

Inducted to WSAS 2016

National Academy of Medicine (NAM), 2015

Field(s) of Expertise: Global Public Health

Julie Kmec*Professor, Department of Sociology***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Sociology of Work and Organizations

Tim Kohler*Regents Professor of Anthropology***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Archaeology, Neolithic Societies, Complex Systems

Allan E. Konopka*Director of Microbiology***Pacific Northwest National Laboratory**

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Physiological and Community Ecology of Microbes in Natural and Engineered Ecosystems

Richard Kouzes*Laboratory Fellow, Materials Sciences***Pacific Northwest National Laboratory**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Physics; Computing

Steve Kramer*Professor Emeritus, Civil & Environmental Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2020

National Academy of Engineering (NAE), 2020

Field(s) of Expertise: Geotechnical Earthquake Engineering, Geotechnical Engineering

Ondrej Krivanek*President***Nion Corporation**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Electron Optics; Solid State Physics

James M. Krueger*Regents Professor, School of Molecular Biosciences***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Physiology

Patricia K. Kuhl*Endowed Chair, Bezos Family Foundation for Early Childhood Learning; Co-Director, UW Institute for Learning & Brain Sciences; Director, NSF Science of Learning Center (LIFE)***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2010

National Academy of Sciences (NAS), 2010

Field(s) of Expertise: Early Language and Brain Development

Alvin L. Kwiram*Emeritus Professor of Chemistry***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Chemistry

Eric B. Larson*Senior Investigator***Kaiser Permanente Washington Health
Research Institute**

Section 4: Health Sciences

Inducted to WSAS 2015

National Academy of Medicine (NAM), 2007

Field(s) of Expertise: Healthcare Innovation

Ed Lazowska*Professor, and Bill & Melinda Gates Chair
Emeritus, Paul G. Allen School of Computer
Science & Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2001

Field(s) of Expertise: Computer Science and
Engineering**Ann L. Lee***Executive Vice President***Juno Therapeutics**

Section 2: Engineering and Technology

Inducted to WSAS 2019

National Academy of Engineering (NAE), 2007

Field(s) of Expertise: Bioengineering and
Biotechnology**Lai-yung "Ruby" Leung***Battelle Fellow***Pacific Northwest National Laboratory**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Atmospheric Science

Randall LeVeque*Professor Emeritus, Applied Mathematics***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2021

National Academy of Sciences (NAS), 2021

Field(s) of Expertise: Applied Mathematics,
Geohazards**Henry Levy***Chairman and Wissner-Slivka Chair***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2011

National Academy of Engineering (NAE), 2011

Field(s) of Expertise: Operating Systems,
Distributed Systems, Security, the WWW, and
Computer Archives**Mary Lidstrom***Frank Jungers Chair of Engineering, Professor in
Chemical Engineering***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2011

National Academy of Sciences (NAS), 2013

Field(s) of Expertise: Microbial Biology

Yuehe Lin*Professor, School of Mechanical and Materials
Engineering***Washington State University/Pacific Northwest
National Laboratory**

Section 2: Engineering and Technology

Inducted to WSAS 2018

Field(s) of Expertise: Material Science and
Engineering; Biomedical Engineering**Steven B. Lipner***Executive Director***SAFECode**

Section 2: Engineering and Technology

Inducted to WSAS 2017

National Academy of Engineering (NAE), 2017

Field(s) of Expertise: Computer Science and
Engineering**David Lomet***Partner Researcher***Microsoft Research**

Section 2: Engineering and Technology

Inducted to WSAS 2018

National Academy of Engineering (NAE), 2018

Field(s) of Expertise: Data Management and
Transactional Systems

Christine Luscombe**University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Polymers, Clean Energy

Alair MacLean*Professor of Sociology***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Inequality, Education, Military, Veterans

Jon D. Magnusson*Senior Principal***Magnusson Klemencic Associates**

Section 2: Engineering and Technology

Inducted to WSAS 2016

National Academy of Engineering (NAE), 2016

Field(s) of Expertise: Structural Engineering, Seismic Engineering

jmagnusson@mka.com

Henrique S. Malvar*Distinguished Engineer***Microsoft Research**

Section 2: Engineering and Technology

Inducted to WSAS 2012

National Academy of Engineering (NAE), 2012

Field(s) of Expertise: Signal Processing Enhancement/Compression, Decompositions, Coding Theory

Ramulu Mamidala*Boeing Pennell Professor of Engineering, and Mechanical Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2015

Field(s) of Expertise: Manufacturing Science
ramulum@uw.edu**Marc Mangel***Distinguished Professor***University of Washington Tacoma/University of California Santa Cruz**

Section 3: Biological Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Mathematical Biology

Thomas Marsh*Professor and IMPACT Director, School of Economic Sciences***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Agricultural Economics

tl_marshall@wsu.edu

George M. Martin*Professor Emeritus of Pathology***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2008

Field(s) of Expertise: Pathology

gmmartin@uw.edu

Clifford F. Mass*Professor, Department of Atmospheric Sciences***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Weather of the American Northwest

Peter J. May*Donald R. Matthews Distinguished Professor Emeritus of American Politics***University of Washington**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Policy Processes, Environmental Regulation, and Policymaking for Natural Hazards and Disasters

Jill McCluskey

Regents Professor, School of Economic Sciences

Washington State University

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Consumer Preferences,
Product Quality, Industrial Organization

Anne McCoy

Professor of Chemistry

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Theoretical Spectroscopy

Michael G. McDonell

Professor, Elson S. Floyd College of Medicine

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Substance Use and Mental
Health Treatment

Terry F. McElwain

*Regents Professor Emeritus, Paul G. Allen School
for Global Animal Health*

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2009

Field(s) of Expertise: Global Control of Persistent
Infectious Diseases

Larry McLerran

*Director, Institute for Nuclear Theory and
Professor of Physics*

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2017

Field(s) of Expertise: Theoretical Physics

Sterling M. McPherson

Director, Biostatistics and Clinical Trial Design

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Evidence-based
Drug/Alcohol Use Disorder Treatments

Victoria Meadows

Professor and Director, Astrobiology Program

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Astrobiology; Planetary and
Exoplanetary Science

Katrina Mealey

*Richard L. Ott Endowed Chair in Small Animal
Medicine and Research*

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Pharmacogenetics;
Companion Animal Veterinary Medicine

Kathryn Meier

*Professor and Interim Chair, Department of
Pharmacological Sciences*

Washington State University

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Pharmacology;
Biochemistry

Andrew N. Meltzoff

*Co-Director, Institute for Learning and Brain
Sciences*

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Psychological and Cognitive
Sciences

Pamela Holsclaw Mitchell

*Professor Emeritus, Biobehavioral Nursing and
Health Informatics*

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Patient Outcomes of Care
Systems and Clinical Research on Care for
Patients

Ron C. Mittelhammer

Regents Professor of Economic Sciences and Statistics

Washington State University

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Econometrics and Statistics

Bruce Montgomery

CEO

Avalyn Pharma

Section 4: Health Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Antimicrobial Development

David Montgomery

Professor of Earth and Space Sciences

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Geomorphology

Sue E. Moore

Affiliate Professor

Center for Ecosystem Sentinels, University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Marine Mammals; Bioacoustics

Kristi Morgansen

Professor and Chair of Aeronautics and Astronautics

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2021

Field(s) of Expertise: Guidance, Navigation, Control, and Autonomy; Aerospace Engineering

Earll M. Murman

Ford Professor of Engineering Emeritus

Massachusetts Institute of Technology

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 1991

Field(s) of Expertise: Industrial and Systems Engineering

Christopher J. L. Murray

Director, Institute for Health Metrics and Evaluation and Professor, Department of Global Health

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2007

Field(s) of Expertise: Population Health Measurement and Health System Performance Assessment

Charles Emerson Murry

Co-Director, Institute for Stem Cell and Regenerative Medicine; Professor, Department of Pathology; Professor, Department of Bioengineering

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Discovered Ischemic Preconditioning, the Most Powerful Mammalian Protection System against Cell Death

Roger M. Myers

Executive Director

Aerojet Rocketdyne Redmond (retired)

Section 2: Engineering and Technology

Inducted to WSAS 2012

Field(s) of Expertise: Aerospace

Julio A. Navarro

Senior Technical Fellow

Boeing Research and Technology

Section 2: Engineering and Technology

Inducted to WSAS 2021

National Academy of Engineering (NAE), 2021

Field(s) of Expertise: RF Circuits and Antennas; Directional Communications and Radar Sensors

Alshakim Nelson

Associate Professor of Chemistry

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2021

Field(s) of Expertise: Polymer Chemistry; 3D Printing

Eugene Nester*Professor Emeritus of Microbiology***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1994

Field(s) of Expertise: Microbial Plant Pathology

Matthew O'Donnell*Frank and Julie Jungers Dean of Engineering**Emeritus and Professor of Bioengineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2009

Field(s) of Expertise: Cutting-Edge Explorations of New Imaging Modalities in Biomedicine

Gordon H. Orians*Professor Emeritus of Biology***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1989

Field(s) of Expertise: Ecology

Mari Ostendorf*Endowed Professor of System Design**Methodologies, Electrical & Computer**Engineering Associate Vice Provost for Research**University of Washington***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2019

National Academy of Engineering (NAE), 2021

Field(s) of Expertise: Speech and Language Processing

Guy Hughes Palmer*Regents Professor of Pathology & Infectious**Diseases and Senior Director of Global Health***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2006

Field(s) of Expertise: Infectious Diseases, Global Health and Development

Ljiljana Pasa-Tolic*Laboratory Fellow, Functional and Systems**Biology***Pacific Northwest National Laboratory**

Section 2: Engineering and Technology

Inducted to WSAS 2021

Field(s) of Expertise: Analytical Chemistry and Mass Spectrometry; Omics and Systems Biology

Radia J. Perlman*Fellow***Dell EMC**

Section 2: Engineering and Technology

Inducted to WSAS 2015

National Academy of Engineering (NAE), 2015

Field(s) of Expertise: Computer Science and Engineering

Edward B. Perrin*Professor Emeritus, Health Systems and**Population Health***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 1974

Field(s) of Expertise: Biostatistics, Health Data Systems, and Health Services Research

John Peters*Professor and Director, Institute of Biological**Chemistry***Washington State University**

Section 3: Biological Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Biochemistry; Microbiology

Theodore W. Pietsch*Professor and Curator of Fishes, School of Aquatic**and Fishery Sciences***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Marine Ichthyology

Robert D. Plotnick

Professor Emeritus, Evans School of Public Policy and Governance

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Economic Analysis of the Prevalence, Causes, and Consequences of Poverty in the U.S.

B. W. "Joe" Poovaiah

Regents Professor, Department of Horticulture and Landscape Architecture

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Calcium Signaling in Plants, Plant Growth and Development, Biotechnology

Bruce Mark M. Psaty

Professor and Investigator, Departments of Medicine, Epidemiology, and Health Services

Group Health Research Institute

Section 4: Health Sciences

Inducted to WSAS 2014

National Academy of Medicine (NAM), 2013

Field(s) of Expertise: Cardiovascular Epidemiology

Suzie Pun

Professor of Bioengineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2018

Field(s) of Expertise: Drug Delivery and Biomaterials

Andre Eric Punt

Director, School of Aquatic and Fishery Sciences

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Assessment and Management of Marine Resources

Thomas P. Quinn

Professor of Aquatic and Fishery Sciences

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Fish Behavior, Ecology, and Evolution

Phil Rasch

Laboratory Fellow and Chief Scientist for Climate Science

Pacific Northwest National Laboratory

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Climate Science

Buddy D. Ratner

Professor of Chemical and Bioengineering and Co-Director, Center for Dialysis Innovation

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2002

Field(s) of Expertise: Bioengineering

John Reganold

Regents Professor of Soil Science and Agroecology

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Agroecology

Per Reinhall

Professor and Chair, Department of Mechanical Engineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2019

Field(s) of Expertise: Dynamical Systems, Vibrations, and Acoustics

Lynn Riddiford*Professor Emerita, Biology***University of Washington Friday Harbor Laboratories**

Section 3: Biological Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 2010

Field(s) of Expertise: Insect Endocrinology

James Joseph Riley*Professor Emeritus, Mechanical Engineering***University of Washington**

Section 2: Engineering and Technology

Inducted to WSAS 2012

National Academy of Engineering (NAE), 2014

Field(s) of Expertise: Fluid Dynamics

Robert C. Ritter*Professor of Neuroscience and Physiology***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Neuroendocrinological

Control of Appetite and Satiety

R. G. Hamish Robertson*Boeing Distinguished Professor of Physics, Emeritus***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2004

Field(s) of Expertise: Nuclear and Particle Physics

John Roll*Professor and Vice Dean for Research, Elson S. Floyd College of Medicine***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Addiction

Cornelius Rosse*Professor Emeritus, Department of Biological Structure***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2019

National Academy of Medicine (NAM), 2001

Field(s) of Expertise: Anatomy

Kevin Rosso*Laboratory Fellow and Associate Director of Geochemistry, Physical Sciences Division***Pacific Northwest National Laboratory**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Geochemistry

Marla Salmon*Professor of Nursing and Global Health***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2019

National Academy of Medicine (NAM), 1996

Field(s) of Expertise: Nursing

Martin Savage*Professor of Physics***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Nuclear Physics

Daniel E. Schindler*Professor of Aquatic and Fishery Sciences***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Aquatic Ecology, Limnology, Fisheries

Maureen Schmitter-Edgecombe*H. L. Eastlick Professor of Psychology***Washington State University**

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Clinical Neuropsychology

Noel Schulz

*Edmund Schweitzer Chair, EECS and Co-Director,
PNNL/WSU Advanced Grid Institute*

Washington State University

Section 2: Engineering and Technology

Inducted to WSAS 2021

Field(s) of Expertise: Electric Power Engineering and Renewable Energy Integration; Engineering Education, Women in STEM

Jon Schwantes

Senior Research Scientist and Lead, Nuclear & Radiochemistry Team

Pacific Northwest National Laboratory

Section 2: Engineering and Technology

Inducted to WSAS 2021

Field(s) of Expertise: Nuclear & Radiochemistry and Nuclear Forensics; Environmental Engineering and Chemistry

Daniel Schwartz

*Founding Director and Boeing-Sutter Professor,
Clean Energy Institute*

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2016

Field(s) of Expertise: Clean Energy, Transportation

Edmund O. Schweitzer, III

President

Schweitzer Engineering Laboratories, Inc.

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2002
Field(s) of Expertise: Electric Power and Energy Systems Engineering/Industrial Manufacturing and Operational Systems Engineering

John Donald Scott

Krebs-Speights Professor of Cell Signaling and Cancer Biology

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Signal Communication between Cells

Tueng Shen

Graham & Brenda Siddall Endowed Chair and Associate Dean, Medical Technology Innovation

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Medicine; Bioengineering

Harry Shum

Emeritus Researcher

Microsoft Corporation

Section 2: Engineering and Technology

Inducted to WSAS 2019

National Academy of Engineering (NAE), 2017

Field(s) of Expertise: Artificial Intelligence

Subhash C. Singhal

Battelle Fellow Emeritus

Pacific Northwest National Laboratory

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2005

Field(s) of Expertise: Energy

Jane Sisk

Professor Emerita of Pharmacy

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2018

National Academy of Medicine (NAM), 2001

Field(s) of Expertise: Pharmacy

Michael K. Skinner

Eastlick Distinguished Professor in Health Sciences

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Genomics

Michael J. Smerdon

Regents Professor of Biochemistry and Biophysics

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2013

Field(s) of Expertise: DNA Damage and Repair in Eukaryotes; Carcinogenesis and Cancer Prevention

Richard D. Smith

Battelle Fellow and Chief Scientist, Biological Sciences Division

Pacific Northwest National Laboratory

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Proteomics and Metabolomics, Mass Spectrometry

David A Stahl

Professor of Environmental Engineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2012

National Academy of Engineering (NAE), 2012

Field(s) of Expertise: Civil and Environmental Engineering

John Stark

Director and Professor of Ecotoxicology

Washington Stormwater Center

Section 3: Biological Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Toxicology

H. David Stensel

Professor, Department of Civil Engineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2013

Field(s) of Expertise: Biological Wastewater Treatment Processes

Andy S. Stergachis

*Professor, Epidemiology and Global Health
Adjunct Professor of Pharmacy and Health Services Director, Global Medicines Program*

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2013

National Academy of Medicine (NAM), 2013

Field(s) of Expertise: Pharmacoepidemiology, Global Medicines Safety

Juming Tang

Distinguished Chair of Food Engineering

Washington State University

Section 2: Engineering and Technology

Inducted to WSAS 2019

National Academy of Engineering (NAE), 2021

Field(s) of Expertise: Food Engineering

Julie Theriot

Professor of Biology

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2021

National Academy of Sciences (NAS), 2021

Field(s) of Expertise: Biomechanics; Cell and Molecular Biology; Computational Biology

Ronald M. Thom

Staff Scientist Emeritus, Marine Sciences Laboratory

Pacific Northwest National Laboratory

Section 3: Biological Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Coastal Ecosystem Science and Restoration

Elizabeth Thompson

Professor, Department of Statistics

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2008

Field(s) of Expertise: Statistics: Methods for the Statistical Analysis of Genetic Data, Computational Biology

Hilaire Thompson

Joanne Montgomery Endowed Professor and Director, School of Nursing Graduate Program

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Traumatic Brain Injury, Falls, Aging, Nursing, Consumer Health Informatics

George Todaro*Advisor***Targeted Growth, Inc**

Section 4: Health Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 1986

Field(s) of Expertise: Pathobiology, Cancer Research

Keiko U. Torii*HHMI/Gordon and Betty Moore Foundation**Investigator***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Plant Developmental Genetics

Leung Tsang*Professor of Electrical Engineering and Computer Science***University of Michigan, Ann Arbor**

Section 2: Engineering and Technology

Inducted to WSAS 2012

National Academy of Engineering (NAE), 2020

Field(s) of Expertise: Electromagnetics, Remote Sensing, Photonics, Microwaves, EMC

Hans P.A. Van Dongen*Professor and Director, Sleep Performance and Research Center***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Chronobiology and Sleep

Wesley Van Voorhis*Professor and Director, Center for Emerging and Re-emerging Infectious Diseases***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Infectious Diseases and Pandemic Preparedness; Drug Development

Vickie VanZandt*President***VanZandt Electric Transmission Consulting**

Section 2: Engineering and Technology

Inducted to WSAS 2021

National Academy of Engineering (NAE), 2021

Field(s) of Expertise: Electrical Engineering and Power Systems; Power System Control and Protection

Usha Varanasi*Distinguished Scholar in Residence***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Marine Mammals and Pollution Impacts

Monica Vavilala*Professor and Director, Harborview Injury Prevention and Research Center***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Anesthesiology and Pain Medicine; Traumatic Brain Injury and Injury Prevention

Jud W. Virden, Jr.*Associate Laboratory Director, Energy & Environment Directorate***Pacific Northwest National Laboratory**

Section 2: Engineering and Technology

Inducted to WSAS 2014

Field(s) of Expertise: Energy

James C. Wang*Mallinckrodt Professor of Biochemistry and Molecular Biology, Emeritus***Harvard University**

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1986

Field(s) of Expertise: Biochemistry and Molecular Biology

Yong Wang

*Laboratory Fellow and Associate Director,
Institute for Integrated Catalysis*

**Pacific Northwest National Laboratory/
Washington State University**

Section 2: Engineering and Technology

Inducted to WSAS 2015

Field(s) of Expertise: Catalytic Materials

Robin Waples

Senior Scientist

Northwest Fisheries Science Center

Section 3: Biological Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Fish Conservation Geneticist

Peter Ward

*Professor, Department of Earth and Space
Sciences*

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Paleontology

Judith N. Wasserheit

Professor and Chair, Department of Global Health

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2006

Field(s) of Expertise: Medicine, Infectious
Diseases, STDs

Katrina Waters

Director, Biological Sciences Division

Pacific Northwest National Laboratory

Section 3: Biological Sciences

Inducted to WSAS 2021

Field(s) of Expertise: Biochemistry; Toxicology,
Public Health, and Infectious Disease

James Winton

Senior Scientist, Emeritus

US Geological Survey

Section 3: Biological Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Infectious Diseases of Fish

Rachel Wong

Professor of Biological Structure

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2021

National Academy of Sciences (NAS), 2021

Field(s) of Expertise: Neuroscience

Nancy Fugate Woods

*Professor, Family and Child Nursing and Dean
Emeritus, School of Nursing*

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 1993

Field(s) of Expertise: Women's Health

Paul Yager

Professor, Department of Bioengineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2013

Field(s) of Expertise: Point of Care Diagnostic
Devices, Microfluidics, Physical Biochemistry

Gary Yang

Founder and CTO

UniEnergy Technologies

Section 2: Engineering and Technology

Inducted to WSAS 2018

Field(s) of Expertise: Batteries, Fuel Cells,
Advanced Materials

Jonathan K. Yoder

Professor, School of Economic Sciences

Washington State University

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2017

Field(s) of Expertise: Economics

Qin Zhang

*Director, Center for Precision & Automated
Agricultural Systems*

Washington State University

Section 2: Engineering and Technology

Inducted to WSAS 2020

Field(s) of Expertise: Agricultural Automation,
Field Robotics, Smart Agriculture

Ning Zheng

Professor of Pharmacology

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2020

Field(s) of Expertise: Structural Biology, Drug
Discovery, Protein Degradation, Plant Biology,
Protein Sciences

*EMERITUS MEMBERS***Eric G. Adelberger***Emeritus Professor of Physics***University of Washington**

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1994

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National Academy of Sciences (NAS), 2006

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National Academy of Engineering (NAE), 2000

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Inducted to WSAS 2008

National Academy of Sciences (NAS), 1996

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National Academy of Medicine (NAM), 1996

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Inducted to WSAS 2014

Winston J. Brill*Visiting Professor of Microbiology, University of Washington***Winston J. Brill & Associates**

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1989

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National Academy of Medicine (NAM), 2007

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National Academy of Engineering (NAE), 2001

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Inducted to WSAS 2013

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National Academy of Sciences (NAS), 1989 & NAM 2000

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National Academy of Sciences (NAS), 1987

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Inducted to WSAS 2012

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National Academy of Engineering (NAE), 2002

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National Academy of Medicine (NAM), 2011

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National Academy of Sciences (NAS), 1998

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National Academy of Sciences (NAS), 1989

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Inducted to WSAS 2012

National Academy of Sciences (NAS), 2018

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National Academy of Medicine (NAM), 1981

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National Academy of Sciences (NAS), 1999

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National Academy of Sciences (NAS), 1995

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