

WASHINGTON STATE Academy of Sciences

2019-2020 Membership Directory

Revised October 2019



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

Ronald Thom, PRESIDENT

Pacific Northwest National Laboratory
(RETIRED)

Donald Baer, SECRETARY

Pacific Northwest National Laboratory
(RETIRED)

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(RETIRED)

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University of Washington

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University of Washington

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The Boeing Company
(RETIRED)

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Pacific Northwest National Laboratory

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University of Washington

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Washington State University

W. Sue Ritter

Washington State University

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Ex-officio

About Members

WSAS member expertise contributes to scientific and technical analyses of major issues facing Washington State. Examples include the Puget Sound and other critical ecosystems; impacts of climate change; sustainable natural resource management of forests, fisheries, wildlife, soils, minerals, and water; transportation; health and wellness; food security and safety; energy; and STEM education at K-12 and post-secondary levels.

Members are state residents or employees who are elected to the National Academies of Sciences, Engineering, and Medicine, and those elected directly to WSAS by their peers.

Members select an annual slate of candidates for new membership from an open nominations process. Candidates are selected by committees of each of five sections, reviewed by an academy-wide membership committee, and subsequently approved by the Board of Directors.

Members are elected into one of five disciplinary sections, described below.

Section 1. Physical and Mathematical Sciences

All fundamental physical and mathematical sciences: astronomy, astrophysics and cosmology; atmospheric and ocean sciences; chemistry; geosciences; materials sciences; pure and applied mathematics; physics; and statistics.

Section 2. Engineering and Technology

All branches of engineering and technology: advanced manufacturing; aerospace; biological engineering and technology; chemical; civil and environmental; computer information and science; electrical; energy; industrial and systems engineering; materials; mechanical; nanotechnology; and nuclear.

Section 3. Biological Sciences

Basic and applied biological sciences from molecular to populations to ecosystems perspectives: agriculture; animal; aquatic and marine sciences; biochemistry; ecology; environmental sciences; evolutionary biology; genomics; microbial; plants; and soil.

Section 4. Health Sciences

The full spectrum of health care, including basic and clinical biomedical research; dentistry; health services and economics; healthcare education; medicine; mental health; nursing; nutritional sciences; pharmacy and pharmaceutical sciences; public health; and veterinary medicine.

Section 5. Social and Behavioral Sciences

Basic and applied scientific studies in anthropology; criminal justice; demography; economics; education; management science; political science; psychological and cognitive science; social work; and sociology.

Janis L. Abkowitz**University of Washington**

Clemant A. Finch Professor of Medicine; Head, Division of Hematology; Adjunct Professor of Genome Sciences, University of Washington School of Medicine

Section 4, Field(s) of expertise: red cell aplasia, aplastic anemia and other marrow failure syndromes

Elected to WSAS 2014

National Academy of Medicine (NAM), 2013

janabk@uw.edu

Eric G. Adelberger**University of Washington**

Emeritus Professor of Physics

Section 1, Field(s) of expertise: experimental, gravitational, and nuclear physics

Elected to WSAS 2008

National Academy of Sciences (NAS), 1994

eric@npl.washington.edu

Bill Anders**Heritage Flight Museum (retired)**

NASA Astronaut

Section 2, Field(s) of expertise: nuclear power and shielding, aerospace

Elected to WSAS 2018

National Academy of Engineering (NAE), 1984

bill@heritageflight.org

Thomas E. Anderson**University of Washington**

Warren Francis and Wilma Kolm Bradley Chair in Computer Science and Engineering

Section 2, Field(s) of expertise: computer science

Elected to WSAS 2016

National Academy of Engineering (NAE), 2016

tom@cs.washington.edu

Frederick R. Appelbaum**Fred Hutchinson Cancer Research Center**

Executive Vice President and Deputy Director, Fred Hutchinson Cancer Research Center

Section 4, Field(s) of expertise: biology and therapy of acute myeloid leukemia, control of graft-vs-host disease, prevention of transplant-related complications

Elected to WSAS 2014

National Academy of Medicine (NAM), 2013

fappelba@fhcrc.org

E. Virginia Armbrust**University of Washington**

Director and Professor, School of Oceanography

Section 3, Field(s) of expertise: genomics and ecology of marine diatoms

Elected to WSAS 2012

armbrust@uw.edu

Steven Flynn Ashby**Pacific Northwest National Laboratory**

Laboratory Director

Section 1, Field(s) of expertise: computational science

Elected to WSAS 2013

sfashby@pnnl.gov

Bishnu S. Atal**University of Washington**

Affiliate Professor of Electrical Engineering

Section 2, Field(s) of expertise: acoustics and speech, speech coding, synthesis and recognition

Elected to WSAS 2008

National Academy of Sciences (NAS), 1993

bsatal@bishnu.net

Brian F. Atwater

U.S. Geological Survey; University of Washington

Scientist Emeritus; Affiliate Professor
Section 1, Field(s) of expertise: geological histories of earthquakes, tsunamis, and floods
Elected to WSAS 2008
National Academy of Sciences (NAS), 2007
atwater@uw.edu

Donald R. Baer

Pacific Northwest National Laboratory

Laboratory Fellow
Section 1, Field(s) of expertise: chemical physics, materials and nanoscience
Elected to WSAS 2014
don.baer@pnnl.gov

David A. Baker

University of Washington

Professor of Biochemistry
Section 3, Field(s) of expertise: computational biophysics
Elected to WSAS 2008
National Academy of Sciences (NAS), 2006
dabaker@u.washington.edu

Amit Bandyopadhyay

Washington State University

Herman and Brita Lindholm Endowed Chair Professor
Section 2, Field(s) of expertise: materials science and engineering, manufacturing, additive manufacturing, biomaterials, biotribology
Elected to WSAS 2017
amitband@wsu.edu

François Baneyx

University of Washington

Charles W.H. Matthaei Professor of Chemical Engineering
Section 2, Field(s) of expertise: engineering and nanotechnology
Elected to WSAS 2016
baneyx@u.washington.edu

Gustavo V. Barbosa-Cánovas

Washington State University

Professor of Food Engineering; Director for Nonthermal Processing of Food
Section 2, Field(s) of expertise: food engineering
Elected to WSAS 2015
barbosa@wsu.edu

Celestina Barbosa-Leiker

Washington State University

Associate Dean for Research
Section 4, Field(s) of expertise: addiction, women's health
Elected to WSAS 2019
celestina@wsu.edu

James Bardeen

University of Washington

Professor Emeritus
Section 1, Field(s) of expertise: general relativity and cosmology
Elected to WSAS 2012
National Academy of Sciences (NAS), 2012
bardeen@phys.washington.edu

Suresh Baskaran

Pacific Northwest National Laboratory

Director, Research Partnerships
Section 2, Field(s) of expertise: nuclear energy, transportation
Elected to WSAS 2016
suresh.baskaran@pnnl.gov

James B. Bassingthwaighe

University of Washington

Professor of Bioengineering and Radiology
Section 4, Field(s) of expertise: cardiovascular studies
Elected to WSAS 2008
National Academy of Engineering (NAE), 2000
jbb2@u.washington.edu

Joseph A. Beavo**University of Washington**

Professor of Pharmacology

Section 4, Field(s) of expertise: mechanism of action of cyclic nucleotides

Elected to WSAS 2008

National Academy of Sciences (NAS), 1996

beavo@u.washington.edu

Katherine Beckett**University of Washington**

Professor, Sociology & Law, Societies, Justice Program

Section 5, Field(s) of expertise: criminal justice

Elected to WSAS 2016

kbeckett@uw.edu

Shirley A. A. Beresford**University of Washington**

Professor of Epidemiology and Senior Associate Dean

Section 4, Field(s) of expertise: nutrition and health disparities

Elected to WSAS 2015

beresfrd@uw.edu

Alfred O. Berg**University of Washington**

Professor and Chair Department of Family Medicine

Section 4, Field(s) of expertise: family medicine, preventive medicine, evidence-based medicine

Elected to WSAS 2008

National Academy of Medicine (NAM), 1996

aberg@u.washington.edu

Philip A. Bernstein**Microsoft Research**

Distinguished Scientist

Section 2, Field(s) of expertise: computer science (data management and distributed computing)

Elected to WSAS 2008

National Academy of Engineering (NAE), 2003

philbe@microsoft.com

Thomas E. Besser**Washington State University**

Professor

Section 4, Field(s) of expertise: agents that cause human food-borne diseases

Elected to WSAS 2010

tbesser@vetmed.wsu.edu

Peter Bethell**Marshall Miller and Associates**

Senior Principal, Mineral Processing

Section 2, Field(s) of expertise: mineral processing, chemistry, chemical engineering and metallurgy

Elected to WSAS 2019

National Academy of Engineering (NAE), 2014

peter.bethell@mma1.com

Michael Bevan**University of Washington**

Professor Emeritus

Section 3, Field(s) of expertise: immunology

Elected to WSAS 2018

National Academy of Sciences (NAS), 2008

mbevan@uw.edu

Sue Biggins**Fred Hutchinson Cancer Research Center;
Howard Hughes Medical Institute**Associate Director, Division of Basic Sciences;
Investigator*Section 4, Field(s) of expertise: genetics, developmental biology*

Elected to WSAS 2015

National Academy of Sciences (NAS), 2015

sbiggins@fredhutch.org

Cecilia M. Bitz**University of Washington**

Professor, Department of Atmospheric Sciences

Section 1, Field(s) of expertise: atmospheric sciences

Elected to WSAS 2015

bitz@uw.edu

James F. Blinn

Consultant

Section 2, Field(s) of expertise: computer science

Elected to WSAS 2012

National Academy of Engineering (NAE), 2000

jimblinn@comcast.net

P. Dee Boersma

University of Washington

Wadsworth Endowed Chair in Conservation
Science

*Section 3, Field(s) of expertise: sea bird
reproduction*

Elected to WSAS 2011

boersma@uw.edu

Alain Bonneville

Pacific Northwest National Laboratory

Laboratory Fellow

Section 2, Field(s) of expertise: geosciences

Elected to WSAS 2014

alain.bonneville@pnl.gov

Cathryn Booth-LaForce

University of Washington

Professor

*Section 5, Field(s) of expertise: effects of
environmental inputs on the development of
children, complementary and integrative health*

Elected to WSAS 2012

cblaforce@gmail.com

Anjan Bose

Washington State University

Regents Professor, Distinguished Professor of
Electric Power Engineering

Section 2, Field(s) of expertise: electrical, energy

Elected to WSAS 2008

National Academy of Engineering (NAE), 2003

bose@wsu.edu

Susmita Bose

Washington State University

Herman and Brita Lindholm Endowed Chair

Professor

*Section 2, Field(s) of expertise: biomaterials, 3D
printing, bone implants and drug delivery*

Elected to WSAS 2017

sbose@wsu.edu

Ann Bostrom

University of Washington

Weyerhaeuser Endowed Professor of

Environmental Policy

*Section 5, Field(s) of expertise: risk perception
and communication*

Elected to WSAS 2014

abostrom@uw.edu

Theodore W. Bowyer

Pacific Northwest National Laboratory

Laboratory Fellow

Section 1, Field(s) of expertise: nuclear physics

Elected to WSAS 2013

ted.bowyer@pnl.gov

Michael Bragg

University of Washington

Dean Emeritus and Professor of Aeronautics and
Astronautics

*Section 2, Field(s) of expertise: aerodynamics,
flight mechanics, aircraft icing*

Elected to WSAS 2018

mbragg@uw.edu

Christopher Bretherton

University of Washington

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

*Section 1, Field(s) of expertise: climate
modeling, cloud processes*

Elected to WSAS 2019

National Academy of Sciences (NAS), 2019

breth@uw.edu

George S. Bridges**The Evergreen State College**

President

Section 5, Field(s) of expertise: juvenile and criminal justice, racial disparities in imprisonment

Elected to WSAS 2012

bridges@evergreen.edu

Winston J. Brill**Winston J. Brill and Associates**

Visiting Professor of Microbiology, University of Washington

Section 3, Field(s) of expertise: microbiology, evolution

Elected to WSAS 2008

National Academy of Sciences (NAS), 1989

wbrill@winstonbrill.com

Don E. Brownlee**University of Washington**

Professor of Astronomy

Section 5, Field(s) of expertise: origin and evolution of planetary materials, planets and planetary systems

Elected to WSAS 2010

National Academy of Sciences (NAS), 1995

brownlee@astro.washington.edu

John A. Browse**Washington State University**

Regents Professor

Section 3, Field(s) of expertise: plant biochemistry

Elected to WSAS 2018

jab@wsu.edu

Dedra Stefanie Buchwald**Washington State University**

Professor, Elson S. Floyd School of Medicine

Section 4, Field(s) of expertise: epidemiology

Elected to WSAS 2015

dedra.buchwald@wsu.edu

Linda Buck**Fred Hutchinson Cancer Research Center**

Laboratory Director, Basic Sciences Division

Section 4, Field(s) of expertise: olfactory system, mechanisms that underlie perception

Elected to WSAS 2018

National Academy of Sciences (NAS), 2003

lbuck@fredhutch.org

Elizabeth Buffalo**University of Washington**

Associate Professor, Department of Physiology and Biophysics

Section 4, Field(s) of expertise: neuroscience, learning and memory

Elected to WSAS 2016

ebuffalo@uw.edu

Morris Bullock**Pacific Northwest National Laboratory**

Laboratory Fellow, and Director of the Center for Molecular Electrocatalysis

Section 1, Field(s) of expertise: chemistry, homogeneous catalysis, molecular electrocatalysis

Elected to WSAS 2018

morris.bullock@pnnl.gov

Krzysztof Burdzy**University of Washington**

Professor of Mathematics

Section 1, Field(s) of expertise: probability theory and related problems in mathematical analysis, combinatorics and dynamical systems, philosophical foundations of probability

Elected to WSAS 2013

burdzy@uw.edu

Wylie Burke**University of Washington**

Professor and Chair, Bioethics and Humanities
*Section 4, Field(s) of expertise: bioethics,
medical and public health genetics*
Elected to WSAS 2008
National Academy of Medicine (NAM), 2007
wburke@u.washington.edu

Joost A. Businger**University of Washington (retired)**

Professor of Atmospheric Science, Senior
Scientist at the National Center of Atmospheric
Research
Section 1, Field(s) of expertise: meteorology
Elected to WSAS 2008
National Academy of Engineering (NAE), 2001
eyrie@cnw.com

Douglas Call**Washington State University**

Professor of Molecular Epidemiology
Section 4, Field(s) of expertise: microbiology
Elected to WSAS 2017
drcall@wsu.edu

Allison A. Campbell**Pacific Northwest National Laboratory**

Director
*Section 1, Field(s) of expertise: developing
capability and program development, biomimetics*
Elected to WSAS 2013
allison.campbell@pnl.gov

Charles T. Campbell**University of Washington**

B. Seymour Rabinovitch Endowed Chair in
Chemistry
*Section 1, Field(s) of expertise: development of
chemical catalysts and techniques for
characterizing material surfaces*
Elected to WSAS 2013
charliec@uw.edu

David G. Castner**University of Washington**

Director, National ESCA and Surface Analysis
Center for Biomedical Problems
*Section 2, Field(s) of expertise: biological
materials analysis*
Elected to WSAS 2013
castner@uw.edu

Richard F. Catalano, Jr.**School of Social Work, University of
Washington**

Professor, Co Founder, Social Development
Research Group
*Section 5, Field(s) of expertise: youth
development: study and prevention of behavioral
health problems, cultural similarities and
differences in etiology and prevention effects*
Elected to WSAS 2013
catalano@uw.edu

William A. Catterall**University of Washington**

Professor and Chairman, Department of
Pharmacology
*Section 4, Field(s) of expertise: neurobiology and
pharmacology*
Elected to WSAS 2008
National Academy of Sciences (NAS), 1989; NAM
2000
wcatt@u.washington.edu

Ana Mari Cauce**University of Washington**

President
*Section 4, Field(s) of expertise: community
psychology: intersection between ethnic minority
youth, culture, social support networks and
family processes*
Elected to WSAS 2012
cauce@u.washington.edu

James J. Champoux**University of Washington**

Professor and Chair, Department of Microbiology
Section 3, Field(s) of expertise: enzymology of nucleic acid synthesis and repair

Elected to WSAS 2010

champoux@u.washington.edu

Charles Chavkin**University of Washington**

Allan and Phyllis Treuer Endowed Chair in Pain Research and Professor, Pharmacology
Section 4, Field(s) of expertise: molecular basis of drug addiction

Elected to WSAS 2012

cchavkin@uw.edu

Xiangli Chen**McKinsey & Company**

Senior Advisor

Section 2, Field(s) of expertise: innovation strategy, product management, industrial laser applications

Elected to WSAS 2018

National Academy of Engineering (NAE), 2017

xiangli.chen@outlook.com

Dianne Chong**Boeing (retired)**

Vice-President, Engineering, Operations & Technology

Section 2, Field(s) of expertise: engineering: materials and manufacturing

Elected to WSAS 2017

National Academy of Engineering (NAE), 2017

dichong@msn.com

Dimitri Christakis**Seattle Children's Research Institute**

Director, Center for Child Health, Behavior and Development

Section 4, Field(s) of expertise: pediatrics, child development, health services, health policy

Elected to WSAS 2018

dimitri.christakis@seattlechildrens.org

Sue B. Clark**Pacific Northwest National Laboratory**

Chief Science and Technology Officer

Section 1, Field(s) of expertise: chemistry, nuclear

Elected to WSAS 2012

sue.clark@pnnl.gov

Brad R. Colman**The Climate Corporation**

Director of Science

Section 1, Field(s) of expertise: Pacific Northwest weather and weather prediction

Elected to WSAS 2014

brad.colman@climate.com

Philip M. Condit**The Boeing Company (retired)**

Chair and CEO

Section 2, Field(s) of expertise: aeronautical engineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 1985

phil@storybookpartners.com

R. James Cook**Washington State University**

Endowed Chair in Wheat Research, Professor Emeritus

Section 3, Field(s) of expertise: plant pathology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1993

rjcook@wsu.edu

Rodney B. Croteau**Washington State University**

Fellow and Regents Professor, Institute of Biological Chemistry

Section 3, Field(s) of expertise: biochemistry

Elected to WSAS 2008

croteau@wsu.edu

Kyle D. Crowder**University of Washington**

Professor of Sociology

Section 5, Field(s) of expertise: sociology, demography

Elected to WSAS 2013

kylecrow@uw.edu

Larry R. Dalton**University of Washington**B. Seymour Rabinovitch Chair in Chemistry,
George Kauffman Professor of Electrical
Engineering*Section 2, Field(s) of expertise: advancement of sub-wavelength photonics by integrating electro-optic materials with silicon photonics and plasmonics, environmental quality, sustainability, and climate change*

Elected to WSAS 2012

dalton@chem.washington.edu

Thomas Daniel**University of Washington**

Professor of Biology and Komen Endowed Chair

Section 3, Field(s) of expertise: neuromuscular control of animal locomotion, biomechanics and neural engineering

Elected to WSAS 2012

danielt@uw.edu

Jacqueline E. Darroch**Guttmacher Institute**

Senior Fellow

Section 4, Field(s) of expertise: social demography, sexual and reproductive health

Elected to WSAS 2008

National Academy of Medicine (NAM), 1995

jedarroch@yahoo.com

Eric D'Asaro**University of Washington**

Senior Principal Oceanographer

Section 1, Field(s) of expertise: physical oceanography

Elected to WSAS 2014

National Academy of Sciences (NAS), 2014

dasaro@uw.edu

Ernest R. Davidson**University of Washington**Professor of Chemistry, University of Washington;
Distinguished Professor, Emeritus, Indiana
University*Section 1, Field(s) of expertise: chemistry, theoretical*

Elected to WSAS 2008

National Academy of Sciences (NAS), 1987

erdavid@earthlink.net

Earl W. Davie**University of Washington**

Professor Emeritus of Biochemistry

Section 3, Field(s) of expertise: proteins involved in blood coagulation and fibrinolysis

Elected to WSAS 2012

National Academy of Sciences (NAS), 1980

ewd@u.washington.edu

Trisha Davis**University of Washington**

Professor and Chair, Department of Biochemistry

Section 3, Field(s) of expertise: protein interactions

Elected to WSAS 2015

tdavis@uw.edu

James J. De Yoreo**Pacific Northwest National Laboratory**

Chief Scientist, Materials Synthesis and Simulations

Section 1, Field(s) of expertise: experimental physics, materials science

Elected to WSAS 2015

james.deyoreo@pnnl.gov

John Delaney**University of Washington**

Professor of Oceanography

Section 1, Field(s) of expertise: oceanography

Elected to WSAS 2016

jdelaney@uw.edu

George Demiris**University of Pennsylvania**

Penn Integrates Knowledge University Professor

Section 4, Field(s) of expertise: clinical informatics, aging and technology

Elected to WSAS 2014

gdemiris@uw.edu

Li Deng**Citadel America LLP**

Chief Artificial Intelligence Officer

Section 2, Field(s) of expertise: artificial intelligence, Information technology and financial engineering

Elected to WSAS 2019

l.deng@ieee.org

Michael H. Dickinson**University of Washington**

Professor of Biology

Section 3, Field(s) of expertise: neuroethology and aeronautical engineering: animal flight

Elected to WSAS 2012

flyman@uw.edu

Don A. Dillman**Washington State University**

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

Section 5, Field(s) of expertise: sociology, statistics

Elected to WSAS 2010

dillman@wsu.edu

Cynthia Dougherty**University of Washington**

Professor, Biobehavioral Nursing and Health Systems

Section 4, Field(s) of expertise: cardiology

Elected to WSAS 2016

cindyd@uw.edu

Susan Dumais**Microsoft Research**

Principal Researcher

Section 2, Field(s) of expertise: algorithms and interfaces for improved information retrieval as well as general issues in human-computer interaction

Elected to WSAS 2011

National Academy of Engineering (NAE), 2011

sdumais@microsoft.com

Evan Eichler**University of Washington**

Professor

Section 3, Field(s) of expertise: genome science

Elected to WSAS 2012

National Academy of Sciences (NAS), 2012

eee@gs.washington.edu

Mickey S. Eisenberg**University of Washington**

Professor of Medicine, University of Washington;
Medical Director, King County EMS

Section 4, Field(s) of expertise: emergency medicine

Elected to WSAS 2008

National Academy of Medicine (NAM), 1994
gingy@u.washington.edu

Robert N. Eisenman**Fred Hutchinson Cancer Research Center**

Member, Division of Basic Sciences

Section 4, Field(s) of expertise: molecular genetics of cancer

Elected to WSAS 2008

National Academy of Sciences (NAS), 1998
eisenman@fhcrc.org

Neil J. Elgee**Ernest Becker Foundation**

President

Section 4, Field(s) of expertise: experimental social psychology

Elected to WSAS 2008

National Academy of Medicine (NAM), 1978
nelgee@u.washington.edu

Christopher J. Elias**Bill and Melinda Gates Foundation**

President, Global Development

Section 4, Field(s) of expertise: improving global health by ensuring that innovations in science and technology are available to low income groups and developing countries

Elected to WSAS 2013

National Academy of Medicine (NAM), 2013
chris.elias@gatesfoundation.org

Mark Ellis**University of Washington**

Professor of Geography

Section 5, Field(s) of expertise: geography of urban places, immigration, race, and ethnicity

Elected to WSAS 2014

ellism@uw.edu

Adrienne Fairhall**University of Washington**

Associate Professor, Physiology and Biophysics

Section 3, Field(s) of expertise: neurobiology

Elected to WSAS 2014

fairhall@uw.edu

Elaine Faustman**University of Washington**

Professor and Director

Section 4, Field(s) of expertise: toxicology, risk assessment

Elected to WSAS 2019

faustman@uw.edu

Joseph Felsenstein**University of Washington**

Professor, Department of Genome Sciences and
Department of Biology

Section 4, Field(s) of expertise: evolutionary biology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1999
joe@gs.washington.edu

Stanley Fields**University of Washington**

Professor, Department of Genome Sciences and
Department of Medicine; Investigator, Howard
Hughes Medical Institute

Section 4, Field(s) of expertise: genetics and genomics

Elected to WSAS 2008

National Academy of Sciences (NAS), 2000
fields@u.washington.edu

Bruce A. Finlayson**University of Washington**

Professor Emeritus of Chemical Engineering
Section 2, Field(s) of expertise: chemical engineering, applied mathematical sciences
Elected to WSAS 2008
National Academy of Engineering (NAE), 1994
chemecomp@gmail.com

Edmond H. Fischer**University of Washington**

Professor Emeritus
Section 4, Field(s) of expertise: biochemistry
Elected to WSAS 2008
National Academy of Sciences (NAS), 1973
efischer@uw.edu

Thomas R. Fleming**University of Washington**

Professor, Department of Biostatistics
Section 4, Field(s) of expertise: design, conduct, and analysis of clinical trials; survival analysis
Elected to WSAS 2013
National Academy of Medicine (NAM), 2013
tfleming@u.washington.edu

William H. Foege**Bill and Melinda Gates Foundation**

Senior Fellow, Global Health Program, Bill & Melinda Gates Foundation
Section 4, Field(s) of expertise: child survival and development, population, preventive medicine
Elected to WSAS 2016
info@gatesfoundation.org

E. Norval Fortson**University of Washington**

Professor Emeritus, Physics
Section 1, Field(s) of expertise: experimental atomic physics
Elected to WSAS 2008
National Academy of Sciences (NAS), 1998
fortson@phys.washington.edu

Jerry Franklin**University of Washington**

Professor of Ecosystem Analysis
Section 3
Elected to WSAS 2016
jff@u.washington.edu

James Fredrickson**Pacific Northwest National Laboratory**

Chief Scientist
Section 3, Field(s) of expertise: microbial ecology and biogeochemistry
Elected to WSAS 2011
jkfred56@gmail.com

Stanley C. Froehner**University of Washington**

Professor and Chair, Department of Physiology & Biophysics
Section 4, Field(s) of expertise: biochemistry, neurobiology, and cell biology
Elected to WSAS 2013
froehner@uw.edu

Daniel R. Gamelin**University of Washington**

Harry and Catherine Jayne Boand Endowed Professor of Chemistry
Section 1, Field(s) of expertise: inorganic nanoscience
Elected to WSAS 2015
gamelin@chem.washington.edu

Dayong Gao**University of Washington**

Origincell Endowed Professor of Mechanical Engineering
Section 2, Field(s) of expertise: mechanical engineering and biomedical engineering, cryobiology and artificial organs
Elected to WSAS 2017
dayong@uw.edu

Stanley M. Gartler**University of Washington**

Professor Emeritus of Medicine and Genome Sciences

Section 4, Field(s) of expertise: molecular biology and human genetics

Elected to WSAS 2008

National Academy of Sciences (NAS), 1989

gartler@uw.edu

Michael H. Gelb**University of Washington**

Harry and Catherine Jayne Boand Endowed Professor of Chemistry and Professor of Biochemistry

Section 4, Field(s) of expertise: development of technology for newborn screening for lysosomal storage diseases

Elected to WSAS 2012

gelb@chem.washington.edu

John Geyman**University of Washington**

Professor Emeritus

Section 4, Field(s) of expertise: family medicine, rural medicine

Elected to WSAS 2019

National Academy of Medicine (NAM), 1985

jgeyman@uw.edu

Cecilia Giachelli**University of Washington**

Professor and W. Hunter and Dorothy Simpson Endowed Chair

Section 3, Field(s) of expertise: molecular and cellular bioengineering

Elected to WSAS 2016

ceci@uw.edu

Paul H. Gilbert**Parsons Brinckerhoff Inc.**

Director Emeritus

Section 2, Field(s) of expertise: civil engineering and construction, program and project management of complex projects

Elected to WSAS 2008

National Academy of Engineering (NAE), 1997

pgil6@comcast.net

Gary Gilliland**Fred Hutchinson Cancer Research Center**

President and Director

Section 4, Field(s) of expertise: genetics, cancer treatment

Elected to WSAS 2016

National Academy of Medicine (NAM)

gary@fredhutch.org

David Ginger**University of Washington; UW Clean Energy Institute**

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

Section 1, Field(s) of expertise: physical and materials chemistry, especially of new materials for clean energy and optoelectronics applications

Elected to WSAS 2018

dginger@uw.edu

Jay Giri**GGM Consulting (retired)**

Director

Section 2, Field(s) of expertise: energy management systems

Elected to WSAS 2015

jaygiri00@gmail.com

Michael Goodchild**University of California, Santa Barbara**

Emeritus Professor of Geography

Section 5, Field(s) of expertise: geography, GIS

Elected to WSAS 2018

National Academy of Sciences (NAS), 2002

good@geog.ucsb.edu

Daniel E. Gottschling**Fred Hutchinson Cancer Research Center**

Cell Biologist

Section 4, Field(s) of expertise: cancer and genomic instability

Elected to WSAS 2011

National Academy of Sciences (NAS), 2011

dgottsch@fredhutch.org

Donald K. Grayson**University of Washington**

Professor of Anthropology

Section 5, Field(s) of expertise: archaeology

Elected to WSAS 2011

National Academy of Sciences (NAS), 2011

grayson@u.washington.edu

J. Thomas Grayston**University of Washington**

Professor Emeritus of Epidemiology; Founding Dean, School of Public Health and Community Medicine

Section 4, Field(s) of expertise: epidemiology of infectious diseases

Elected to WSAS 2008

National Academy of Medicine (NAM), 1981

grayston@u.washington.edu

E. Peter Greenberg**University of Washington**

Professor of Microbiology

Section 3, Field(s) of expertise: microbiology

Elected to WSAS 2008

National Academy of Sciences (NAS), 2004

epgreen@u.washington.edu

Albert G. Greenberg**Microsoft Corporation**

Corporate Vice President, Azure Networking

Section 2, Field(s) of expertise: networking, cloud, software defined networking, hardware, optical, switch OS, data center, wide area, network virtualization, network function virtualization, network services, hybrid cloud, access, SD-WAN

Elected to WSAS 2016

National Academy of Engineering (NAE), 2016

albert@microsoft.com

Anthony G. Greenwald**University of Washington**

Professor of Psychology

Section 5, Field(s) of expertise: social psychology, implicit bias

Elected to WSAS 2015

agg@uw.edu

Mark Groudine**Fred Hutchinson Cancer Research Center**

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

Section 3, Field(s) of expertise: molecular and cellular biology

Elected to WSAS 2008

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

markg@fhcrc.org

Alexes Harris**University of Washington**

Professor of Sociology

Section 5, Field(s) of expertise: criminal justice

Elected to WSAS 2017

yharris@uw.edu

Dennis L. Hartmann**University of Washington**

Professor, Atmospheric Sciences

Section 1, Field(s) of expertise: atmospheric science, climatology

Elected to WSAS 2016

National Academy of Sciences (NAS)

dhartm@uw.edu

Caroline S. Harwood**University of Washington**

Professor, Department of Microbiology

Section 3, Field(s) of expertise: bacterial physiology

Elected to WSAS 2008

National Academy of Sciences (NAS), 2009

csh5@u.washington.edu

David Hawkins**University of Washington**

Emeritus Endowed Professor of Prevention

Section 5, Field(s) of expertise: prevention of child and adolescent behavioral health problems, crime prevention, substance abuse prevention, longitudinal research, preventive intervention research, social development.

Elected to WSAS 2018

jdh@uw.edu

Maxine Hayes**Washington State Department of Health (retired)**

Washington State Health Officer

Section 4, Field(s) of expertise: public health, population health, pediatrics, maternal child health

Elected to WSAS 2008

National Academy of Medicine (NAM), 2008

maxiethedoc@yahoo.com

Blayne R. Heckel**University of Washington**

Professor and Chair

Section 1, Field(s) of expertise: gravitational phenomenon, time-reversal symmetry violation

Elected to WSAS 2012

heckel@phys.washington.edu

Margaret Heitkemper**University of Washington**

Chair, Biobehavioral Nursing and Health Systems

Section 4, Field(s) of expertise: irritable bowel syndrome (IBS)

Elected to WSAS 2013

National Academy of Medicine (NAM), 2015

heit@uw.edu

Steve Henikoff**Fred Hutchinson Cancer Research**

Investigator, Howard Hughes Medical Institute

Section 4, Field(s) of expertise: genetics and genomics

Elected to WSAS 2018

National Academy of Sciences (NAS), 2005

steveh@fhcrc.org

Ray Hilborn**University of Washington**

Professor of Fisheries Management, Aquatic and Fishery Sciences

Section 3, Field(s) of expertise: natural resource management and conservation

Elected to WSAS 2010

rayh@u.washington.edu

Bertil Hille**University of Washington**

Wayne E. Crill Endowed Professor of Physiology and Biophysics

Section 3, Field(s) of expertise: cell physiology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1986 plus NAM 2002

hille@uw.edu

Kerry Wayne Hipps**Washington State University**

Regent's Professor of Chemistry and of Materials Science and Engineering

Section 1, Field(s) of expertise: chemistry, nanotechnology

Elected to WSAS 2013

hipps@wsu.edu

Charles Hirschman**University of Washington**

Boeing International Professor

Section 5, Field(s) of expertise: sociology, demography

Elected to WSAS 2010

charles@u.washington.edu

Allan S. Hoffman**University of Washington**

Professor Emeritus of Bioengineering

Section 2, Field(s) of expertise: molecular biomaterials and molecular bioengineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 2005

hoffman@u.washington.edu

Eric Holland**Fred Hutchinson Cancer Research Center**

Senior VP and Director of Human Biology

Section 4, Field(s) of expertise: mouse models of cancer, brain tumors

Elected to WSAS 2018

National Academy of Medicine (NAM), 2009

eholland@fredhutch.org

King K. Holmes**University of Washington**

Professor, Director of Research and Faculty Development, Department of Global Health

Section 4, Field(s) of expertise: AIDS and STDs

Elected to WSAS 2008

National Academy of Medicine (NAM), 1987

kkh@u.washington.edu

George "Bud" Homsy**University of Washington**

Affiliate Professor

Section 2, Field(s) of expertise: fluid mechanics

Elected to WSAS 2015

National Academy of Engineering (NAE), 2006

bud@math.ubc.ca

Leroy E. Hood**Institute for Systems Biology**

President

Section 3, Field(s) of expertise: biology, genomics, personalized medicine and technology development

Elected to WSAS 2008

National Academy of Sciences (NAS), 1982; NAE 2007

lhood@systemsbiology.org

Robert Horsch**World Resources Institute**

Advisor, Global Commission on Adaptation

Section 3, Field(s) of expertise: plant genetic transformation

Elected to WSAS 2011

rbhorsch@gmail.com

Eric Horvitz**Microsoft Corporation**

Managing Co-Director, Microsoft Research

Section 2, Field(s) of expertise: machine learning and intelligence, with links to decision science, human-computer interaction, biomedical informatics, and information retrieval

Elected to WSAS 2013

National Academy of Engineering (NAE), 2013

horvitz@microsoft.com

Raymond B. Huey**University of Washington**

Professor Emeritus of Biology

Section 3, Field(s) of expertise: evolutionary physiology

Elected to WSAS 2015

hueyrb@u.washington.edu

Patricia Ann Hunt**Washington State University**

Meyer Distinguished Professor

Section 3, Field(s) of expertise: aneuploidy, endocrine disrupting chemicals

Elected to WSAS 2015

pathunt@vetmed.wsu.edu

Lee Huntsman**University of Washington**

President Emeritus

Section 4, Field(s) of expertise: bioengineering, leadership of scientific and policy initiatives in the State of Washington, healthcare transformation

Elected to WSAS 2011

huntsman@uw.edu

William Andrew Hustrulid**Hustrulid Mining Services**

Manager

Section 2, Field(s) of expertise: mining engineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 2007

whustrulid@aol.com

Akira Ishimaru**University of Washington**

Professor Emeritus of Electrical Engineering

Section 2, Field(s) of expertise: electrical engineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 1996

ishimaru@u.washington.edu

Janet Jansson**Pacific Northwest National Laboratory**

Chief Scientist for BIology & Lab Fellow

Section 3, Field(s) of expertise: plant, soil and microbial Sciences, environmental sciences and ecology

Elected to WSAS 2015

janet.jansson@pnnl.gov

Samson A. Jenekhe**University of Washington**

Boeing - Martin Professor of Chemical Engineering

Section 2, Field(s) of expertise: organic and printed electronics

Elected to WSAS 2013

jenekhe@u.washington.edu

Shaoyi Jiang**University of Washington**

Professor of Chemical Engineering, Adjunct Professor of Bioengineering

Section 2, Field(s) of expertise: molecular modeling to product development

Elected to WSAS 2011

sjiang@uw.edu

Forrester T. Johnson**The Boeing Company**

Senior Technical Fellow

Section 1, Field(s) of expertise: computational fluid dynamics

Elected to WSAS 2008

National Academy of Engineering (NAE), 2000

ftj0908@comcast.net

Monica Kirkpatrick Johnson**Washington State University**

Chair, Department of Sociology

Section 5, Field(s) of expertise: sociology, social psychology

Elected to WSAS 2016

monicakj@wsu.edu

David B. Kaplan**University of Washington**

Director, Institute for Nuclear Theory

Section 1, Field(s) of expertise: quantum field theory

Elected to WSAS 2010

National Academy of Sciences (NAS), 2013

dbkaplan@phys.washington.edu

Gary S. Kaplan**Virginia Mason Health System**

Chairman and CEO

Section 5, Field(s) of expertise: internal medicine

Elected to WSAS 2014

National Academy of Medicine (NAM), 2013

gary.kaplan@vmhc.org

Kristina B. Katsaros**Northwest Research Associates Inc.; NOAA (retired)**

Atlantic Oceanographic and Meteorological Laboratory

Section 1, Field(s) of expertise: atmospheric and oceanic sciences

Elected to WSAS 2008

National Academy of Engineering (NAE), 2001

katsaros@whidbey.net

Joel D. Kaufman**University of Washington**

Professor

Section 4, Field(s) of expertise: air pollution and cardiovascular health, epidemiology and public health

Elected to WSAS 2017

joelk@uw.edu

Tom Kawula**Washington State University**

Director and Professor

Section 4, Field(s) of expertise: zoonotic infectious diseases, host immunity

Elected to WSAS 2019

tom.kawula@wsu.edu

Bruce D. Kay**Pacific Northwest National Laboratory**

Laboratory Fellow

Section 1, Field(s) of expertise: chemical physics

Elected to WSAS 2017

bruce.kay@pnl.gov

Christopher Keane**Washington State University**

Vice President for Research

Section 1, Field(s) of expertise: physics and astronomy, plasma physics

Elected to WSAS 2019

chris.keane@wsu.edu

Sarah Keller**University of Washington**

Professor of Chemistry

Section 1, Field(s) of expertise: inhomogeneous distribution of lipids within membranes that model cell membranes

Elected to WSAS 2011

skeller@chem.washington.edu

Susan Kieffer**University of Illinois at Urbana-Champaign**

Charles R. Walgreen, Jr. University Professor Emerita

Section 1, Field(s) of expertise: geological fluid dynamics, sustainability and resilience

Elected to WSAS 2019

skieffer@illinois.edu

Ivan R. King**University of Washington**

Research Professor

Section 1, Field(s) of expertise: astronomy

Elected to WSAS 2008

National Academy of Sciences (NAS), 1982

king@astro.washington.edu

Mary-Claire King**University of Washington**

American Cancer Society Professor of Genome Sciences and Medicine
Section 4, Field(s) of expertise: medical genetics
Elected to WSAS 2007
mcking@uw.edu

Rachel Klevit**University of Washington**

Professor of Chemistry and Biochemistry
Section 3, Field(s) of expertise: molecular biology and disease research
Elected to WSAS 2016
klevit@uw.edu

Keith P. Klugman**Bill and Melinda Gates Foundation**

Director for Pneumonia
Section 4, Field(s) of expertise: infectious diseases and microbiology
Elected to WSAS 2016
National Academy of Medicine (NAM)
keith.klugman@gatesfoundation.org

Julie Kmec**Washington State University**

Professor, Department of Sociology
Section 5, Field(s) of expertise: sociology of work and organizations, workplace gender inequality
Elected to WSAS 2019
jkmec@wsu.edu

Albert S. Kobayashi**University of Washington**

Professor Emeritus of Mechanical Engineering
Section 2, Field(s) of expertise: mechanical engineering
Elected to WSAS 2008
National Academy of Engineering (NAE), 1986
ask@u.washington.edu

Tim Kohler**Washington State University**

Regents Professor, Anthropology
Section 5, Field(s) of expertise: archaeology, Neolithic societies, complex systems
Elected to WSAS 2018
tako@wsu.edu

Allan E. Konopka**Pacific Northwest National Laboratory**

Directory of Microbiology
Section 3, Field(s) of expertise: physiological and community ecology of microbes in natural and engineered ecosystems
Elected to WSAS 2010
akonopka@purdue.edu

Kannan M. Krishnan**University of Washington**

Professor of Materials Science, Adjunct Professor of Physics
Section 1, Field(s) of expertise: materials sciences and engineering, magnetism and magnetic materials, condensed matter physics, nanoscience and nanotechnology, bioengineering, imaging
Elected to WSAS 2015
kannanmk@uw.edu

James M. Krueger**Washington State University**

Regents Professor
Section 4, Field(s) of expertise: physiology, cellular and molecular neuroscience
Elected to WSAS 2012
krueger@vetmed.wsu.edu

Patricia K. Kuhl**University of Washington**

Endowed Chair, Bezos Family Foundation for Early Childhood Learning; Co-Director, UW Institute for Learning & Brain Sciences; Director, NSF Science of Learning Center (LIFE)

Section 4, Field(s) of expertise: early language and brain development

Elected to WSAS 2010

National Academy of Sciences (NAS), 2010

pkkuhl@u.washington.edu

Alvin L. Kwiram**University of Washington**

Emeritus Professor of Chemistry

Section 1, Field(s) of expertise: chemistry

Elected to WSAS 2014

kwiram@uw.edu

Brian Lamb**Washington State University**

Regents Professor and Boeing Distinguished Professor of Environmental Engineering

Section 1, Field(s) of expertise: civil and environmental engineering

Elected to WSAS 2016

blamb@wsu.edu

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

Executive Director

Section 4, Field(s) of expertise: internal medicine, geriatrics

Elected to WSAS 2015

National Academy of Medicine (NAM), 2007

larsonec@uw.edu

Ed Lazowska**University of Washington**

Bill & Melinda Gates Chair, Paul G. Allen School of Computer Science & Engineering

Section 2, Field(s) of expertise: computer science and engineering, data science

Elected to WSAS 2008

National Academy of Engineering (NAE), 2001

lazowska@cs.washington.edu

Ann L. Lee**Juno Therapeutics**

Executive VP

Section 2, Field(s) of expertise: bioengineering and biotechnology, chemical engineering

Elected to WSAS 2019

National Academy of Engineering (NAE), 2007

Ann.Lee@junotherapeutics.com

Estella B. Leopold**University of Washington**

Professor Emeritus, Biology

Section 3, Field(s) of expertise: paleobotany and ecology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1974

eleopold@uw.edu

Lai-yung "Ruby" Leung**Pacific Northwest National Laboratory**

Battelle Fellow

Section 1, Field(s) of expertise: atmospheric science, climate and earth system modeling

Elected to WSAS 2013

ruby.leung@pnnl.gov

Henry Levy**University of Washington**

Chairman and Wissner-Slivka Chair

Section 2, Field(s) of expertise: operating systems, distributed systems, cybersecurity, the internet, and computer archives

Elected to WSAS 2011

National Academy of Engineering (NAE), 2011

levy@cs.washington.edu

Mary Lidstrom**University of Washington**

Frank Jungers Chair of Engineering, Professor in
Chemical Engineering
Section 3, Field(s) of expertise: microbial biology
Elected to WSAS 2011
National Academy of Sciences (NAS), 2013
lidstrom@uw.edu

Yuehe Lin**Washington State University; Pacific Northwest
National Laboratory**

Professor, School of Mechanical and Materials
Engineering
*Section 2, Field(s) of expertise: material science
and engineering, biomedical engineering*
Elected to WSAS 2018
yuehe.lin@wsu.edu

Steven B. Lipner**SAFECode**

Executive Director
*Section 2, Field(s) of expertise: computer science
and engineering, computer and network security,
software security and secure software
development*
Elected to WSAS 2017
National Academy of Sciences (NAS)
lipner@outlook.com

Donald Liu**American Bureau of Shipping (retired)**

Executive Vice President and Chief Technology
Officer
*Section 2, Field(s) of expertise: ships and ocean
structures*
Elected to WSAS 2019
National Academy of Engineering (NAE), 2011
dmluix@gmail.com

Jun Liu**Pacific Northwest National Laboratory**

Division Director and Laboratory Fellow
*Section 1, Field(s) of expertise: materials
sciences and energy, energy storage*
Elected to WSAS 2016
jun.liu@pnnl.gov

David Lomet**Microsoft Research**

Principal Researcher
*Section 2, Field(s) of expertise: data
management and transactional systems,
distributed systems*
Elected to WSAS 2018
National Academy of Engineering (NAE), 2018
dlomet@msn.com

Mark Long**University of Washington**

Professor of Public Policy
*Section 5, Field(s) of expertise: public policy
analysis, economics*
Elected to WSAS 2019
marklong@uw.edu

Kelvin G. Lynn**Washington State University**

Director, Center for Materials Research, Eminent
Faculty; Regents Professor; Boeing Endowed
Distinguished Professorship in Advanced Material
Science; Professor of Physics & Professor of
Mechanical Engineering
*Section 2, Field(s) of expertise: use of positron
beams to measure material properties, crystal
growth*
Elected to WSAS 2012
kgl@wsu.edu

Alfred MacRae**MacRae Technologies**

Consultant

Section 2, Field(s) of expertise: integrated circuit technology, satellite and satellite communication technologies

Elected to WSAS 2019

National Academy of Engineering (NAE), 2003

aumacrae@gmail.com

Jon D. Magnusson**Magnusson Klemencic Associates**

Senior Principal

Section 2, Field(s) of expertise: structural and civil engineering

Elected to WSAS 2016

National Academy of Engineering (NAE)

jmagnusson@mka.com

Harmit Malik**Fred Hutchinson Cancer Research Center**

Associate Professor of Genome Sciences

Section 3, Field(s) of expertise: genomics

Elected to WSAS 2019

National Academy of Sciences (NAS), 2019

hsmalik@fhcrc.org

Henrique S. Malvar**Microsoft Research**

Chief Scientist

Section 2, Field(s) of expertise: signal processing enhancement and compression, decompositions, coding theory

Elected to WSAS 2012

National Academy of Engineering (NAE), 2012

malvar@microsoft.com

Ramulu Mamidala**University of Washington**

Boeing Pennell Professor of Engineering,

Mechanical Engineering

Section 2, Field(s) of expertise: manufacturing science

Elected to WSAS 2015

ramulum@uw.edu

Thomas Marsh**Washington State University**

Professor and IMPACT Director, School of Economic Sciences

Section 5, Field(s) of expertise: agricultural economics, math, statistics

Elected to WSAS 2011

tl_marshall@wsu.edu

George M. Martin**University of Washington**

Professor Emeritus of Pathology

Section 3, Field(s) of expertise: pathology, genetics

Elected to WSAS 2008

gmmartin@uw.edu

Clifford F. Mass**University of Washington**

Professor of Atmospheric Sciences

Section 1, Field(s) of expertise: weather of the American Northwest

Elected to WSAS 2012

cmass@uw.edu

Robert F. Mast**Berger/Abam Engineers Inc.**

Senior Principal

Section 2, Field(s) of expertise: structural engineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 1989

mast@abam.com

Ross L. Matsueda**University of Washington**

Blumstein-Jordan Endowed Professor of Sociology

Section 5, Field(s) of expertise: criminology, juvenile justice

Elected to WSAS 2015

matsueda@u.washington.edu

Peter J. May**University of Washington**

Donald R. Matthews Distinguished Professor
Emeritus of American Politics

*Section 5, Field(s) of expertise: policy processes,
environmental regulation, and policy making for
natural hazards and disasters*

Elected to WSAS 2011

pmay@uw.edu

David G. McAlees**Siemens Power Corporation (retired)**

Senior Vice President

*Section 2, Field(s) of expertise: nuclear power,
energy, aeronautical engineering*

Elected to WSAS 2010

dgmcalees@aol.com

Jill McCluskey**Washington State University**

Director and Regents Professor, School of
Economic Sciences

*Section 5, Field(s) of expertise: industrial
organization, environmental quality and energy*

Elected to WSAS 2015

mcccluskey@wsu.edu

Anne McCoy**University of Washington**

Professor of Chemistry

*Section 1, Field(s) of expertise: theoretical
spectroscopy, physical chemistry*

Elected to WSAS 2019

abmccoy@uw.edu

Terry F. McElwain**Washington State University**

Regents Professor Emeritus

*Section 4, Field(s) of expertise: global control of
persistent infectious diseases*

Elected to WSAS 2008

National Academy of Medicine (NAM)

tfm@wsu.edu

Larry McLerran**University of Washington**

Director, Institute for Nuclear Theory; Professor
of Physics

*Section 1, Field(s) of expertise: theoretical
physics*

Elected to WSAS 2017

mclerran@mac.com

Andrew N. Meltzoff**University of Washington**

Co-Director, Institute for Learning and Brain
Sciences

*Section 5, Field(s) of expertise: psychological
and cognitive sciences*

Elected to WSAS 2010

meltzoff@uw.edu

Pamela Holsclaw Mitchell**University of Washington**

Professor Emeritus, Biobehavioral Nursing and
Health Informatics

*Section 4, Field(s) of expertise: patient outcomes
of care systems and clinical research on care for
patients*

Elected to WSAS 2012

pmitch@uw.edu

Ron C. Mittelhammer**Washington State University**

Regents Professor of Economic Sciences and
Statistics

*Section 5, Field(s) of expertise: econometrics and
statistics*

Elected to WSAS 2012

mittelha@wsu.edu

Bruce Montgomery**Avalyn Pharma**

CEO

Section 4, Field(s) of expertise: antimicrobial development, pharmaceutical drug development

Elected to WSAS 2015

Bruce.MontgomeryMD@gmail.com

Randall T. Moon**University of Washington School of Medicine**

William & Marilyn Conner Professor and Founding Director of the Institute of Stem Cell & Regenerative Medicine

Section 4, Field(s) of expertise: signal transduction pathways in development and in disease, proteomics, genomics

Elected to WSAS 2011

National Academy of Sciences (NAS), 2015

rtmoon@uw.edu

Earll M. Murman**Massachusetts Institute of Technology**

Ford Professor of Engineering Emeritus

Section 2, Field(s) of expertise: industrial and systems engineering, aerospace engineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 1991

murman@mit.edu

Christopher J.L. Murray**University of Washington**

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

Section 4, Field(s) of expertise: population health measurement and health system performance assessment

Elected to WSAS 2008

National Academy of Medicine (NAM), 2007

cjl@u.washington.edu

Charles Emerson Murry**University of Washington**

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

Section 4, Field(s) of expertise: discovered ischemic preconditioning, the most powerful mammalian protection system against cell death

Elected to WSAS 2012

murry@u.washington.edu

Roger M. Myers**Aerojet Rocketdyne Redmond (retired)**

Executive Director

Section 2, Field(s) of expertise: aerospace, energy

Elected to WSAS 2012

roger.m.myers@comcast.net

George D. "Pinky" Nelson**Western Washington University**

Director, Science, Mathematics and Technology Education Program

Section 1, Field(s) of expertise: astronomy and astrophysics, education

Elected to WSAS 2012

nelson.pinky@hotmail.com

Eugene Nester**University of Washington**

Professor Emeritus

Section 3, Field(s) of expertise: microbial plant pathology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1994

gnester@u.washington.edu

Kariuki M. Njenga**Washington State University**

Professor

Section 4, Field(s) of expertise: infectious disease epidemiology

Elected to WSAS 2018

National Academy of Medicine (NAM), 2017

mkariuki.njenga@wsu.edu

Matthew O'Donnell**University of Washington**

Frank and Julie Jungers Dean of Engineering Emeritus and Professor of Bioengineering

Section 2, Field(s) of expertise: cutting-edge explorations of new imaging modalities in biomedicine, new technologies for laboratory medicine

Elected to WSAS 2008

National Academy of Engineering (NAE), 2009

matt.odonnel@gmail.com

Gordon H. Orians**University of Washington**

Professor Emeritus of Biology

Section 3, Field(s) of expertise: ecology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1989

ghorians@gmail.com

Mari Ostendorf**University of Washington**

Endowed Professor of System Design Methodologies, Electrical and Computer Engineering Associate Vice Provost for Research

Section 2, Field(s) of expertise: speech and language processing, artificial intelligence

Elected to WSAS 2019

ostendorf@uw.edu

Guy Hughes Palmer**Washington State University**

Regents Professor of Pathology & Infectious

Diseases; Senior Director of Global Health

Section 4, Field(s) of expertise: infectious diseases, global health and development

Elected to WSAS 2008

National Academy of Medicine (NAM), 2006

gpalmer@wsu.edu

Donald L. Patrick**University of Washington**

Professor, Department of Health Services

Section 5, Field(s) of expertise: sociology, public health

Elected to WSAS 2008

National Academy of Medicine (NAM), 1995

donald@uw.edu

Yuval Peres**Microsoft Research**

Principal Researcher

Section 2, Field(s) of expertise: probability theory

Elected to WSAS 2016

National Academy of Sciences (NAS)

yuval@yuvalperes.com

Radia J. Perlman**Dell EMC**

Fellow

Section 2, Field(s) of expertise: computer science and engineering

Elected to WSAS 2015

National Academy of Engineering (NAE), 2015

radia@alum.mit.edu

Edward B. Perrin**University of Washington**

Professor Emeritus

Section 4, Field(s) of expertise: biostatistics, health data systems, and health services research

Elected to WSAS 2008

National Academy of Medicine (NAM), 1974

perrin@u.washington.edu

Theodore W. Pietsch**University of Washington**

Professor and Curator of Fishes, School of Aquatic and Fishery Sciences

Section 3, Field(s) of expertise: marine ichthyology

Elected to WSAS 2010

twp@uw.edu

Robert D. Plotnick**University of Washington**

Professor Emeritus, Evans School of Public Policy and Governance

Section 5, Field(s) of expertise: economic analysis of the prevalence, causes and consequences of poverty in the U.S., social policy

Elected to WSAS 2012

plotnick@uw.edu

Robin Podmore**IncSys, Inc.**

President

Section 2, Field(s) of expertise: computer applications for power system operator training simulators

Elected to WSAS 2013

National Academy of Engineering (NAE), 2013

robin@incsys.com

B.W. "Joe" Poovaiah**Washington State University**

Regents Professor, Department of Horticulture and Landscape Architecture

Section 3, Field(s) of expertise: calcium signaling in plants, plant growth and development, biotechnology

Elected to WSAS 2010

poovaiah@wsu.edu

Ross L. Prentice**Fred Hutchinson Cancer Research Center**

Member and Professor

Section 4, Field(s) of expertise: failure time analysis, disease prevention trials, epidemiologic methods, dietary factors and disease

Elected to WSAS 2008

National Academy of Medicine (NAM), 1990

rprentic@fhcrc.org

Bruce Mark M. Psaty**Group Health Research Institute**

Professor, Departments of Medicine, Epidemiology and Health Services; Investigator
Section 4, Field(s) of expertise: cardiovascular epidemiology

Elected to WSAS 2014

National Academy of Medicine (NAM), 2013

psaty@u.washington.edu

Suzie Pun**University of Washington**

Professor of Bioengineering

Section 2, Field(s) of expertise: drug delivery and biomaterials

Elected to WSAS 2018

spun@uw.edu

Andre Eric Punt**University of Washington**

Director, School of Aquatic and Fishery Sciences
Section 3, Field(s) of expertise: assessment and management of marine resources

Elected to WSAS 2014

aepunt@uw.edu

Thomas P. Quinn**University of Washington**

Professor, Aquatic and Fishery Sciences
Section 3, Field(s) of expertise: fish behavior, ecology and evolution

Elected to WSAS 2010

tquinn@u.washington.edu

Adrian Raftery**University of Washington**

Blumstein-Jordan Professor of Statistics and Sociology

Section 1, Field(s) of expertise: development of new statistical methods for the social, environmental and health sciences

Elected to WSAS 2008

National Academy of Sciences (NAS), 2009

raftery@stat.washington.edu

Paul G. Ramsey**University of Washington**

CEO, UW Medicine; Executive Vice-President for Medical Affairs; Dean, School of Medicine
Section 4, Field(s) of expertise: infectious disease

Elected to WSAS 2008

National Academy of Medicine (NAM), 2000

pramsey@u.washington.edu

Bonnie Ramsey**University of Washington**

Director, Center for Clinical and Translational Research; Associate Director, Pediatric Clinical Research Center; Professor, Seattle Children's Research Center

Section 4, Field(s) of expertise: pediatrics

Elected to WSAS 2016

National Academy of Medicine (NAM)

bramsey@uw.edu

Buddy D. Ratner**University of Washington**

Professor, Co-Director Center for Dialysis Innovation

Section 2, Field(s) of expertise: bioengineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 2002

ratner@uw.edu

John Reganold**Washington State University**

Regents Professor of Soil Science and Agroecology

Section 3, Field(s) of expertise: agroecology

Elected to WSAS 2012

reganold@wsu.edu

Per Reinhall**University of Washington**

Professor and Chair, Dept of Mechanical Engineering

Section 2, Field(s) of expertise: dynamical systems, vibrations, and acoustics, structural mechanics

Elected to WSAS 2019

reinhall@uw.edu

Barbara F. Reskin**University of Washington**

Professor of Sociology

Section 5, Field(s) of expertise: sociology of work, sex, race, and ethnic inequality in work organizations

Elected to WSAS 2008

National Academy of Sciences (NAS), 2006

reskin@u.washington.edu

Peter B. Rhines**University of Washington**

Professor of Oceanography and Atmospheric Sciences

Section 1, Field(s) of expertise: atmospheric and oceanic sciences, aerospace engineering

Elected to WSAS 2008

National Academy of Sciences (NAS), 1981

rhines@ocean.washington.edu

Lynn Riddiford**University of Washington**

Professor of Biology Emerita

Section 3, Field(s) of expertise: insect endocrinology

Elected to WSAS 2018

National Academy of Sciences (NAS), 2010

lmr@uw.edu

Frederick M. Rieke**University of Washington**

Professor, Department of Physiology and Biophysics

Section 4, Field(s) of expertise: signal transduction in the visual system

Elected to WSAS 2014

rieke@uw.edu

James Joseph Riley**University of Washington**

Professor Emeritus, Mechanical Engineering

Section 2, Field(s) of expertise: fluid dynamics

Elected to WSAS 2012

National Academy of Engineering (NAE)

rileyj@u.washington.edu

Robert C. Ritter**Washington State University**

Professor of Neuroscience and Physiology

Section 4, Field(s) of expertise: neuroendocrinological control of appetite and satiety

Elected to WSAS 2013

britter@vetmed.wsu.edu

W. Sue Ritter**Washington State University**

Regents Professor

Section 4, Field(s) of expertise: physiology and neuroscience

Elected to WSAS 2015

sritter@wsu.edu

Frederick P. Rivara**University of Washington**

Seattle Children's Guild Endowed Chair in

Pediatrics; Professor and Vice Chair, Pediatrics

Section 4, Field(s) of expertise: pediatrics and public health

Elected to WSAS 2008

National Academy of Medicine (NAM), 2005

fpr@u.washington.edu

R.G. Hamish Robertson**University of Washington**

Boeing Distinguished Professor of Physics;
Director, Center for Experimental Nuclear Physics
and Astrophysics

*Section 1, Field(s) of expertise: nuclear and
particle physics*

Elected to WSAS 2008

National Academy of Sciences (NAS), 2004

rghr@u.washington.edu

John Roll**Washington State University**

Senior Vice Chancellor for Faculty Affairs and
Research

*Section 5, Field(s) of expertise: addiction
research*

Elected to WSAS 2016

johnroll@wsu.edu

Cornelius Rosse**University of Washington**

Professor Emeritus

*Section 4, Field(s) of expertise: anatomy,
biomedical informatics*

Elected to WSAS 2019

National Academy of Medicine (NAM), 2001

rosse@uw.edulipner

Kevin Rosso**Pacific Northwest National Laboratory**

Laboratory Fellow

*Section 1, Field(s) of expertise: geochemistry,
environmental science*

Elected to WSAS 2019

kevin.rosso@pnnl.gov

Brian Saelens**Seattle Children's Research Institute**

Professor of Pediatrics and Psychiatry &
Behavioral Sciences

*Section 5, Field(s) of expertise: child health
psychology, obesity treatment and prevention,
environment and policy factors that impact
physical activity and healthy eating*

Elected to WSAS 2018

brian.saelens@seattlechildrens.org

Marla Salmon**University of Washington**

Professor of Nursing and Global Health

*Section 4, Field(s) of expertise: nursing, global
health*

Elected to WSAS 2019

National Academy of Medicine (NAM), 1996

msalmon@uw.edu

Martin Savage**University of Washington**

Professor of Physics

*Section 1, Field(s) of expertise: nuclear physics,
quantum simulation*

Elected to WSAS 2019

mjs5@uw.edu

Daniel E. Schindler**University of Washington**

Professor, School of Aquatic and Fishery Sciences

*Section 3, Field(s) of expertise: aquatic ecology,
limnology, fisheries*

Elected to WSAS 2018

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Maureen Schmitter-Edgecombe**Washington State University**

H. L. Eastlick Professor of Psychology

*Section 5, Field(s) of expertise: clinical
neuropsychology, aging and dementia*

Elected to WSAS 2019

schmitter-e@wsu.edu

Daniel Schwartz**University of Washington**

Founding Director and Boeing-Sutter Professor,
Clean Energy Institute
Section 2, Field(s) of expertise: renewable energy
Elected to WSAS 2016
dts@uw.edu

Edmund O. Schweitzer, III**Schweitzer Engineering Laboratories, Inc.**

President
*Section 2, Field(s) of expertise: electric power
and energy systems engineering, industrial
manufacturing and operational systems
engineering*
Elected to WSAS 2008
National Academy of Engineering (NAE), 2002
ed@selinc.com

John Donald Scott**University of Washington**

Krebs-Speights Professor of Cell Signaling and
Cancer Biology
*Section 4, Field(s) of expertise: signal
communication between cells*
Elected to WSAS 2013
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Laurence C. Seifert**Airbiquity, Inc.**

Chairman, iFoodDecisionSciences, Inc.;
Chairman, Airbiquity, Inc.; Chairman, Entomo,
Inc.
*Section 2, Field(s) of expertise: systems
engineering, software business ventures*
Elected to WSAS 2008
National Academy of Engineering (NAE), 1989
laurenceseifert@comcast.net

Harry Shum**Microsoft Corporation**

Executive Vice President
*Section 2, Field(s) of expertise: artificial
intelligence*
Elected to WSAS 2019
National Academy of Engineering (NAE), 2017
hshum@microsoft.com

Subhash C. Singhal**Pacific Northwest National Laboratory**

Battelle Fellow Emeritus
*Section 2, Field(s) of expertise: energy, materials
science*
Elected to WSAS 2008
National Academy of Engineering (NAE), 2005
singhalfuelcell@gmail.com

Michael K. Sinnett**The Boeing Company**

Vice President, Product Development
*Section 2, Field(s) of expertise: aerospace
engineering*
Elected to WSAS 2016
National Academy of Engineering (NAE)
michael.k.sinnett@boeing.com

Jane Sisk**University of Washington**

Professor Emerita
Section 4, Field(s) of expertise: pharmacology
Elected to WSAS 2018
National Academy of Medicine (NAM), 2001
janeesisk@gmail.com

Michael K. Skinner**Washington State University**

Eastlick Distinguished Professor
*Section 3, Field(s) of expertise: genomics, basic
and clinical biomedical research*
Elected to WSAS 2019
skinner@wsu.edu

Michael J. Smerdon**Washington State University**

Regents Professor of Biochemistry and Biophysics

Section 3, Field(s) of expertise: DNA damage and repair in eukaryotes; carcinogenesis and cancer prevention, chromatin structure and function

Elected to WSAS 2013

smerdon@wsu.edu

Richard D. Smith**Pacific Northwest National Laboratory**

Battelle Fellow and Chief Scientist in the Biological Sciences

Section 3, Field(s) of expertise: proteomics and metabolomics, mass spectrometry

Elected to WSAS 2010

rds@pnnl.gov

David A. Stahl**University of Washington**

Professor

Section 2, Field(s) of expertise: civil and environmental engineering

Elected to WSAS 2012

National Academy of Engineering (NAE), 2012

dastahl@uw.edu

John Stark**Washington Stormwater Center**

Director

Section 3, Field(s) of expertise: toxicology, population biology

Elected to WSAS 2019

starkj@wsu.edu

Patrick Sean Stayton**University of Washington**

Director of the Molecular Engineering and Science Institute, College of Engineering

Section 2, Field(s) of expertise: polymer biomolecule conjugates

Elected to WSAS 2013

stayton@uw.edu

Nephi Stella**University of Washington**

Director, University of Washington Center for Cannabis Research

Section 4, Field(s) of expertise: pharmacology of cannabis and optimization of its medicinal properties

Elected to WSAS 2019

nstella@uw.edu

H. David Stensel**University of Washington**

Professor, Department of Civil Engineering

Section 2, Field(s) of expertise: biological wastewater treatment processes

Elected to WSAS 2013

stensel@uw.edu

Andy S. Stergachis**University of Washington**

Professor, Epidemiology and Global Health;

Adjunct Professor of Pharmace and Health Services; Director, Global Medicines Program

Section 4, Field(s) of expertise: pharmacoepidemiology, global medicines safety

Elected to WSAS 2013

National Academy of Medicine (NAM), 2013

stergach@uw.edu

Kenneth Stuart**Seattle Biomedical Research Institute**

President Emeritus and Founder

Section 4, Field(s) of expertise: global health, RNA biology

Elected to WSAS 2011

ken.stuart@seattlebiomed.org

Richard Szeliski**Facebook**

Distinguished Scientist

Section 2, Field(s) of expertise: computer science

Elected to WSAS 2015

National Academy of Engineering (NAE), 2015

szeliski@fb.com

Juming Tang**Washington State University**

Distinguished Chair of Food Engineering

Section 2, Field(s) of expertise: food engineering, health sciences

Elected to WSAS 2019

jtang@wsu.edu

Minoru Taya**University of Washington**

Professor of Mechanical Engineering

Section 2, Field(s) of expertise: modeling, design, and processing of polymers

Elected to WSAS 2013

tayam@uw.edu

Linda Teri**University of Washington**

Professor, School of Nursing

Section 5, Field(s) of expertise: cognitive impairment in older adults

Elected to WSAS 2015

lteri@uw.edu

Ronald M. Thom**Marine Sciences Laboratory, Pacific Northwest National Laboratory**

Staff Scientist Emeritus

Section 3, Field(s) of expertise: coastal ecosystem science and restoration, coastal ecology

Elected to WSAS 2010

thom.ronald@gmail.com

Engelberta "Beti" Thompson**Fred Hutchinson Cancer Research Center**

Member and Associate Program Head

Section 5, Field(s) of expertise: community studies, community-based participatory research, smoking cessation, methodology of group-level randomized trials, cancer prevention

Elected to WSAS 2012

bthomps@fhcrc.org

Elizabeth Thompson**University of Washington**

Professor, Department of Statistics

Section 1, Field(s) of expertise: statistics: methods for the statistical analysis of genetic data, computational biology, population genetics, conservation genetics

Elected to WSAS 2008

National Academy of Sciences (NAS), 2008

eathomp@uw.edu

Hilaire Thompson**University of Washington**

Joanne Montgomery Endowed Professor,

Graduate Program Director School of Nursing

Section 4, Field(s) of expertise: traumatic brain injuries in older adults

Elected to WSAS 2018

hilairret@uw.edu

George Todaro**Targeted Growth, Inc**

Researcher

Section 4, Field(s) of expertise: biotechnology

Elected to WSAS 2018

National Academy of Sciences (NAS), 1986

gtodaro@georgetodaro.com

Stewart E. Tolnay**University of Washington**

Frank Miyamoto Professor of Sociology

Section 5, Field(s) of expertise: demography, sociology

Elected to WSAS 2011

tolnay@uw.edu

Keiko U. Torii**University of Washington**

HHMI/Gordon and Betty Moore Foundation

Investigator

Section 3, Field(s) of expertise: plant developmental genetics

Elected to WSAS 2012

ktorii@uw.edu

Leung Tsang**University of Michigan, Ann Arbor**

Professor of Electrical Engineering and Computer Science

Section 2, Field(s) of expertise: electromagnetics, remote sensing, signal integrity, plasmonics, computational electromagnetics

Elected to WSAS 2012

leungwtsang@gmail.com

Gunther Uhlmann**University of Washington**

Walker Family Endowed Professor in Mathematics

Section 1, Field(s) of expertise: partial differential equations and inverse problems

Elected to WSAS 2012

gunther@math.washington.edu

Hans P.A. Van Dongen**Washington State University**

Professor

Section 4, Field(s) of expertise: chronobiology and sleep, fatigue risk management

Elected to WSAS 2018

hvd@wsu.edu

Usha Varanasi**University of Washington**

Distinguished Scholar in Residence

Section 3, Field(s) of expertise: marine mammals and pollution impacts

Elected to WSAS 2011

ushav@u.washington.edu

Jud W. Virden, Jr.**Pacific Northwest National Laboratory**

Associate Laboratory Director, Energy & Environment Directorate

Section 2, Field(s) of expertise: energy, chemical, materials

Elected to WSAS 2014

jud.virden@pnnl.gov

John M. Wallace**University of Washington**

Professor of Atmospheric Sciences

Section 1, Field(s) of expertise: global climate

Elected to WSAS 2008

National Academy of Sciences (NAS), 1997

wallace@atmos.washington.edu

Alan Waltar**Advanced Medical Isotope Corporation**

Chair of Scientific Advisory Board

Section 2, Field(s) of expertise: nuclear engineering

Elected to WSAS 2011

alan.walter@gmail.com

James C. Wang**Harvard University**

Mallinckrodt Professor of Biochemistry and Molecular Biology, Emeritus

Section 3, Field(s) of expertise: biochemistry and molecular biology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1986

jcwang@fas.harvard.edu

Yong Wang**Pacific Northwest National Laboratory;****Washington State University**

Laboratory Fellow

Section 2, Field(s) of expertise: catalytic materials

Elected to WSAS 2015

yong.wang@pnnl.gov

Robin Waples**Northwest Fisheries Science Center**

Senior Scientist

Section 3, Field(s) of expertise: fish conservation geneticist, conservation biology

Elected to WSAS 2014

robin.waples@noaa.gov

Peter Ward**University of Washington**

Professor, Department of Earth and Space Sciences

Section 1, Field(s) of expertise: paleontology

Elected to WSAS 2011

argo@uw.edu

John D. Warner**The Boeing Company (retired)**

Chief Administrative Officer

Section 2, Field(s) of expertise: aerospace engineering

Elected to WSAS 2008

National Academy of Engineering (NAE), 1995

johndwarner@earthlink.net

Judith N. Wasserheit**University of Washington**

Chair & Professor, Department of Global Health

Section 4, Field(s) of expertise: medicine, infectious diseases, STDs

Elected to WSAS 2008

National Academy of Medicine (NAM), 2006

jwasserh@uw.edu

Robert H. Waterston**University of Washington**

William H. Gates III Endowed Chair in Biomedical Sciences; Professor and Chair, Genome Sciences

Section 3, Field(s) of expertise: genomics, gene expression

Elected to WSAS 2008

National Academy of Sciences (NAS), 2000; NAM 2001

waterston@gs.washington.edu

Noel S. Weiss**University of Washington**

Professor, Department of Epidemiology

Section 4, Field(s) of expertise: public health

Elected to WSAS 2008

National Academy of Medicine (NAM), 1988

nweiss@u.washington.edu

James Winton**U.S. Geological Survey**

Senior Scientist Emeritus

Section 3, Field(s) of expertise: infectious diseases of fish

Elected to WSAS 2018

jwinton@usgs.gov

Nancy Fugate Woods**University of Washington**

Professor, Family and Child Nursing; Dean

Emeritus, School of Nursing

Section 4, Field(s) of expertise: women's health

Elected to WSAS 2008

National Academy of Medicine (NAM), 1993

nfwoods@u.washington.edu

Sotiris Xantheas**Pacific Northwest National Laboratory;****University of Washington**

Laboratory Fellow; Affiliate Professor of Chemistry, PNNL Distinguished Faculty Fellow

Section 1, Field(s) of expertise: theoretical and computational chemistry, electronic structure, intermolecular interactions, modeling of water and aqueous solutions

Elected to WSAS 2018

sotiris.xantheas@pnnl.gov

Paul Yager**University of Washington**

Professor, Department of Bioengineering

Section 2, Field(s) of expertise: point of care diagnostic devices, microfluidics, physical biochemistry

Elected to WSAS 2013

yagerp@u.washington.edu

Gary Yang

UniEnergy Technologies

Founder and CTO

Section 2, Field(s) of expertise: batteries, fuel cells, advanced materials, renewable integration, transportation electrification, power

Elected to WSAS 2018

garyyang80@hotmail.com

Jonathan K. Yoder

Washington State University

Professor, School of Economic Sciences

Section 5, Field(s) of expertise: economics, environmental and natural resources

Elected to WSAS 2017

yoder@wsu.edu

Emeritus Members

Bobbie Berkowitz

Columbia University Medical Center

Dean, School of Nursing; Senior Vice President
Elected to WSAS 2008

Gary Darmstadt

Stanford University

Professor, School of Medicine
Elected to WSAS 2011

Bonnie Dunbar

Dunbar International, LLC

President
Elected to WSAS 2008
National Academy of Engineering (NAE), 2002

David Lee Eaton

University of Washington

Dean and Vice Provost Emeritus
Elected to WSAS 2011
National Academy of Medicine (NAM), 2011

Gerald Edwards

Washington State University

Professor Emeritus, School of Biological Sciences
Elected to WSAS 2011

Howard Frumkin

Wellcome Trust

Head, "Our Planet, Our Health"
Elected to WSAS 2017

Karen I. Goldberg

University of Pennsylvania

Vagelos Professor of Energy Research
Elected to WSAS 2012
National Academy of Sciences (NAS), 2018

R. Curtis Graeber

Boeing (retired)

Senior Technical Fellow
Elected to WSAS 2010

Sen-itiroh Hakomori

Pacific Northwest Research Center (retired)

Elected to WSAS 2018
National Academy of Sciences (NAS), 2000

Lee Hartwell

Fred Hutchinson Cancer Research Center

Director and CEO, Emeritus
Elected to WSAS 2008

Wick Haxton

University of California Berkeley

Professor of Physics
Elected to WSAS 2008

William R. Hazzard

University of Washington

Professor of Medicine Emeritus
Elected to WSAS 2008
National Academy of Medicine (NAM), 1991

Alex K-Y. Jen

University of Washington

Professor Emeritus of Materials Science & Engineering
Elected to WSAS 2011

Richard D. Klausner

The Column Group

Managing Partner
Elected to WSAS 2008

Dennis P. Lettenmaier

University of California, Santa Barbara

Distinguished Professor
Elected to WSAS 2012
National Academy of Engineering (NAE), 2010

Margaret Levi

Stanford University

Director, Comparative Historical Analysis of Organizations and States
Elected to WSAS 2010

Kai Li**Princeton University**

Professor of Computer Science
Elected to WSAS 2012

Chen-Ching Liu**Virginia Tech**

American Electric Power Professor of Electrical
Engineering
Elected to WSAS 2014

Daniel R. Masys**University of California, Santa Barbara**

Professor, School of Medicine
Elected to WSAS 2018
National Academy of Medicine (NAM), 2001

Carver Mead**California Institute of Technology**

Gordon and Betty Moore Professor Emeritus of
Engineering and Applied Science
Elected to WSAS 2018
National Academy of Engineering (NAE), 1984

Prabhu L. Pingali**Tata-Cornell Institute, Cornell University**

Founding Director
Elected to WSAS 2008
National Academy of Sciences (NAS), 2007

Debra Schwinn**University of Iowa**

Professor of Anesthesia
Elected to WSAS 2008
National Academy of Medicine (NAM), 2002

Jaime Sepulveda**University of California, San Francisco**

Professor of Epidemiology and Biostatistics
Elected to WSAS 2008

David Takeo Takeuchi**Boston College**

Professor, School of Social Work
Elected to WSAS 2012

John Vidale**University of Southern California**

Director, Southern California Earthquake Center
Elected to WSAS 2017

Anthony M. Waas**University of Michigan**

Richard A. Auhl Department Chair of Aerospace
Engineering; Felix Pawlowski Collegiate Professor
Elected to WSAS 2017

J. Turner Whitted**NVIDIA Corporation (retired)**

Researcher
Elected to WSAS 2008
National Academy of Engineering (NAE), 2003

Phyllis Wise**Colorado Longitudinal Study**

CEO and President
Elected to WSAS 2008
National Academy of Medicine (NAM), 2008

Tadataka Yamada**Frazier Healthcare**

Senior Executive in Residence
Elected to WSAS 2008
National Academy of Medicine (NAM), 1994

In Memoriam

Albert L. Babb

University of Washington

Professor Emeritus of Nuclear Engineering and of Chemical Engineering
Elected to WSAS 2008
National Academy of Medicine (NAM), 1982

Norman Breslow

University of Washington

Professor of Biostatistics
Elected to WSAS 2008
National Academy of Medicine (NAM), 1986

John W. Cahn

University of Washington

Senior Fellow Emeritus, National Institute of Standards and Technology; Affiliate Professor, Department of Physics and Astronomy, and Materials Science and Engineering Department
Elected to WSAS 2008
National Academy of Sciences (NAS), 1973; NAE 1989

Ersel A. Evans

Westinghouse Hanford Company (retired)

Consultant
Elected to WSAS 2008
National Academy of Engineering (NAE), 1975

Harold Forsen

Bechtel Corporation

Senior Vice-President, Bechtel Technology Group
Elected to WSAS 2008
National Academy of Engineering (NAE), 1989

John Garcia

University of California, Los Angeles

Professor Emeritus, Psychology, Psychiatry, and Behavioral Research
Elected to WSAS 2008
National Academy of Sciences (NAS), 1983

John A. Glomset

University of Washington

Professor, Medicine and Biochemistry
Elected to WSAS 2008
National Academy of Sciences (NAS), 1990

Benjamin Hall

University of Washington

Professor Emeritus
Elected to WSAS 2018
National Academy of Sciences (NAS), 2014

John Emil Halver

University of Washington

Professor Emeritus in Nutrition
Elected to WSAS 2008
National Academy of Sciences (NAS), 1978

Maureen M. Henderson

University of Washington

Professor Emerita, Dean Emerita
Elected to WSAS 2008
National Academy of Medicine (NAM), 1974

Ernest M. Henley

University of Washington

Professor Emeritus of Physics, Dean Emeritus
Elected to WSAS 2008
National Academy of Sciences (NAS), 1979

James W. Mar

Massachusetts Institute of Technology

Professor Emeritus
Elected to WSAS 2008
National Academy of Engineering (NAE), 1981

Edward L. Miles

University of Washington

Virginia and Prentice Bloedel Professor of Marine Studies and Public Affairs, School of Marine Affairs; Co-Director, Center for Science in the Earth System
Elected to WSAS 2008
National Academy of Sciences (NAS), 2003

Arno G. Motulsky**University of Washington**

Professor Emeritus, Departments of Medicine and Genome Sciences

Elected to WSAS 2008

National Academy of Medicine (NAM), 1974; NAS, 1976

George E. Mueller**Kistler Aerospace Corporation**

CEO Emeritus

Elected to WSAS 2008

National Academy of Engineering (NAE), 1967

Ann Nelson**University of Washington**

Professor of Physics

Elected to WSAS 2012

National Academy of Sciences (NAS), 2012

Robert T. Paine**University of Washington**

Professor Emeritus of Zoology

Elected to WSAS 2008

National Academy of Sciences (NAS), 1986

Richard J. Robbins**The Robbins Group LLC**

Owner, Emeritus Chairman/CEO

Elected to WSAS 2008

National Academy of Engineering (NAE), 1991

Roger A. Rosenblatt**University of Washington**

Professor and Vice Chair, Department of Family Medicine; Adjunct Professor of Global Health, Health Services, & Forestry

Elected to WSAS 2008

National Academy of Medicine (NAM), 1987

Dale F. Rudd**University of Wisconsin**

Professor Emeritus

Elected to WSAS 2008

National Academy of Engineering (NAE), 1978

Burton J. Smith**Microsoft Corporation**

Technical Fellow

Elected to WSAS 2008

National Academy of Engineering (NAE), 2003

Joseph F. Sutter**Boeing Commercial Airplanes**

Senior Advisor

Elected to WSAS 2008

National Academy of Engineering (NAE), 1984

Jan Tauc**Brown University**

L. Herbert Ballou Professor of Engineering and Physics Emeritus

Elected to WSAS 2008

National Academy of Sciences (NAS), 1992

James Thomas**Pacific Northwest National Laboratory**

Laboratory Fellow, Plasma Engineering Research

Elected to WSAS 2010

Alvin J. Thompson**University of Washington**

Clinical Professor Emeritus, School of Medicine

Elected to WSAS 2008

National Academy of Medicine (NAM), 1979

David James Thouless**University of Washington**

Emeritus Professor of Physics

Elected to WSAS 2008

National Academy of Sciences (NAS), 1995

Robert L. Van Citters

University of Washington

Emeritus Dean and Professor of Medicine;

Professor of Physiology and Biophysics

Elected to WSAS 2008

National Academy of Medicine (NAM), 1978

Diter von Wettstein

Washington State University

R.A. Nilan Distinguished Professor, Department

of Crop and Soil Sciences and School of Molecular

Biosciences

Elected to WSAS 2008

National Academy of Sciences (NAS), 1981