

WASHINGTON STATE Academy of Sciences

2020-2021 Membership Directory

Revised November 2020



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

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(RETIRED)

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(EMERITUS)

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(EMERITUS)

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Janis L. Abkowitz

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

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2014

National Academy of Medicine (NAM), 2013

Field(s) of Expertise: Red cell aplasia, aplastic anemia and other marrow failure syndromes

janabk@uw.edu

Eric G. Adelberger

Emeritus Professor of Physics

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1994

Field(s) of Expertise: Experimental, gravitational, and nuclear physics

eric@npl.washington.edu

Nancy Allbritton

Professor

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2020

Field(s) of Expertise: Biomedical microdevices

nlallbr@uw.edu

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

tom@cs.washington.edu

Frederick R. Appelbaum

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

Fred Hutchinson Cancer Research Center

Section 4: Health Sciences

Inducted to WSAS 2014

National Academy of Medicine (NAM), 2013

Field(s) of Expertise: Biology and therapy of acute myeloid leukemia, control of graft-vs-host disease, prevention of transplant-related complications

fappelba@fhcrc.org

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

armbrust@uw.edu

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

sfashby@pnnl.gov

Bishnu S. Atal

Affiliate Professor of Electrical Engineering

University of Washington

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1993

Field(s) of Expertise: Acoustics and speech, speech coding, synthesis and recognition

bsatal@bishnu.net

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

atwater@uw.edu

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

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Chemical physics

don.baer@pnnl.gov

David A. Baker*Professor of Biochemistry***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 2006

Field(s) of Expertise: Computational biophysics

dabaker@u.washington.edu

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

nathan.baker@pnnl.gov

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

amitband@wsu.edu

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

baneyx@u.washington.edu

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

barbosa@wsu.edu

Celestina Barbosa-Leiker*Vice Chancellor for Research***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Addiction

celestina@wsu.edu

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

bardeen@uw.edu

Suresh Baskaran*Director, Research Partnerships***Pacific Northwest National Laboratory**

Section 2: Engineering and Technology

Inducted to WSAS 2016

Field(s) of Expertise: Energy, transportation

suresh.baskaran@pnnl.gov

James B. Bassingthwaite*Professor of Bioengineering and Radiology***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2000

Field(s) of Expertise: Cardiovascular studies

jbb2@u.washington.edu

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
baszlert@wsu.edu**Joseph A. Beavo***Professor of Pharmacology***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1996
Field(s) of Expertise: Mechanism of action of
cyclic nucleotides
beavo@u.washington.edu**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
kbeckett@uw.edu**Shirley A. A. Beresford***Professor Emerita***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Epidemiology
beresfrd@uw.edu**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
bobbieberkowitz@gmail.com**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)
philbe@microsoft.com**Thomas E. Besser***Professor Emeritus***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2010

Field(s) of Expertise: Agents that cause human
food-borne diseases
tbesser@wsu.edu**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
peter.bethell@mma1.com**Michael Bevan***Professor Emeritus (retired)***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 2008
Field(s) of Expertise: Immunology
mbevan@uw.edu**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
sbiggins@fredhutch.org

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

bitz@uw.edu

James F. Blinn

Consultant

Section 2: Engineering and Technology

Inducted to WSAS 2012

National Academy of Engineering (NAE), 2000

Field(s) of Expertise: Computer science

jimblinn@comcast.net

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

boersma@uw.edu

Alain Bonneville

Laboratory Fellow

Pacific Northwest National Laboratory

Section 2: Engineering and Technology

Inducted to WSAS 2014

Field(s) of Expertise: Geosciences

alain.bonneville@pnnl.gov

Cathryn Booth-LaForce

Professor

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

cblaforce@gmail.com

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

bose@wsu.edu

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

sbose@wsu.edu

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

abostrom@uw.edu

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

ted.bowyer@pnnl.gov

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

mbragg@uw.edu

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

kbrayton@wsu.edu

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

breth@uw.edu

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

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Juvenile and criminal justice, racial disparities in imprisonment

bridges@evergreen.edu

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

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1989

Field(s) of Expertise: Microbiology

wbrill@winstonbrill.com

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

brownlee@astro.washington.edu

John A. Browse*Regents Professor***Washington State University**

Section 3: Biological Sciences

Inducted to WSAS 2018

Field(s) of Expertise: Plant biochemistry

jab@wsu.edu

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

dedra.buchwald@wsu.edu

Linda Buck*Laboratory Director, Basic Sciences Division***Fred Hutchinson Cancer Research Center**

Section 4: Health Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 2003

Field(s) of Expertise: Olfactory system, mechanisms that underlie perception

lbuck@fredhutch.org

Elizabeth Buffalo*Associate Professor, Dept. of Physiology and Biophysics***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Memory and cognition

ebuffalo@uw.edu

Morris Bullock*Laboratory Fellow, and Director of 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

morris.bullock@pnnl.gov

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

burdzy@uw.edu

Wylie Burke*Professor and Chair, Bioethics and Humanities***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 2007

Field(s) of Expertise: Bioethics, medical and public health genetics

wburke@u.washington.edu

Joost A. Businger*Retired Professor of Atmospheric Science, Senior Scientist at the National Center of Atmospheric Research***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Engineering (NAE), 2001

Field(s) of Expertise: Meteorology

eyrie@cnw.com

Douglas Call*Professor of Molecular Epidemiology***Washington State University**

Section 4: Health Sciences

Inducted to WSAS 2017

Field(s) of Expertise: Microbiology

drcall@wsu.edu

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

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Developing capability and program development, biomimetics

allison.campbell@pnl.gov

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

charliec@uw.edu

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

rico@uw.edu

William A. Catterall*Professor and Chairman, Department of Pharmacology***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

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

Field(s) of Expertise: Neurobiology and pharmacology

wcatt@u.washington.edu

Ana Mari Cauce*President***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Community psychology; intersection between ethnic minority youth, culture, social support networks and family processes

cauce@u.washington.edu

Charles Chavkin

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

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Molecular basis of drug addiction

cchavkin@uw.edu

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

xiangli.chen@outlook.com

Dianne Chong

Vice-president, Engineering, Operations & Technology

Boeing (retired)

Section 2: Engineering and Technology

Inducted to WSAS 2017

National Academy of Engineering (NAE), 2017

Field(s) of Expertise: Materials engineering and manufacturing

dichong@msn.com

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

dimitri.christakis@seattlechildrens.org

Sue B. Clark

Chief Science and Technology Officer

Pacific Northwest National Laboratory

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Chemistry

sue.clark@pnnl.gov

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

brad.colman@climate.com

Philip M. Condit**The Boeing Company**

Section 2: Engineering and Technology

Inducted to WSAS 2008

National Academy of Engineering (NAE), 1985

Field(s) of Expertise: Aeronautical engineering

phil@storybookpartners.com

R. James Cook

Endowed Chair in Wheat Research, Professor Emeritus

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1993

Field(s) of Expertise: Plant pathology

rjcook@wsu.edu

Rodney B. Croteau

Fellow and Regents Professor, Institute of Biological Chemistry

Washington State University

Section 3: Biological Sciences

Inducted to WSAS 2008

Field(s) of Expertise: Biochemistry

croteau@wsu.edu

Kyle D. Crowder

Professor of Sociology

University of Washington

Section 5: Social and Behavioral Sciences

Inducted to WSAS 2013

Field(s) of Expertise: Sociology

kylecrow@uw.edu

Larry R. Dalton

*B. Seymour Rabinovitch Chair in Chemistry,
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

dalton@chem.washington.edu

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

danielt@uw.edu

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

jedarroch@yahoo.com

Eric D'Asaro

Senior Principal Oceanographer

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2014

National Academy of Sciences (NAS), 2014

Field(s) of Expertise: Physical oceanography

dasaro@uw.edu

Ernest R. Davidson

*Professor of Chemistry, University of Washington;
Distinguished Professor, Emeritus, Indiana
University*

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1987

Field(s) of Expertise: Chemistry

erdauid@earthlink.net

Earl W. Davie

Professor Emeritus of Biochemistry

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2012

National Academy of Sciences (NAS), 1980

Field(s) of Expertise: Proteins involved in blood coagulation and fibrinolysis

ewd@u.washington.edu

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

tdavis@uw.edu

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

james.deyoreo@pnnl.gov

John Delaney

Professor of Oceanography

University of Washington

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Oceanography, monitoring

jdelaney@uw.edu

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

gdemiris@uw.edu

Li Deng

Chief Artificial Intelligence Officer

Citadel America LLP

Section 2: Engineering and Technology

Inducted to WSAS 2019

Field(s) of Expertise: Artificial intelligence

l.deng@ieee.org

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

dillman@wsu.edu

Cynthia Dougherty

Professor, Biobehavioral Nursing and Health Systems

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Cardiology

cindy@uw.edu

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

susan_dumais@hotmail.com

Evan Eichler

Professor

University of Washington

Section 3: Biological Sciences

Inducted to WSAS 2012

National Academy of Sciences (NAS), 2012

Field(s) of Expertise: Genome science

eee@gs.washington.edu

Mickey S. Eisenberg

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

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Medicine (NAM), 1994

Field(s) of Expertise: Emergency medicine

gingy@u.washington.edu

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

eisenman@fhcrc.org

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

chris.elias@gatesfoundation.org

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

ellism@uw.edu

Adrienne Fairhall*Associate Professor, Physiology and Biophysics***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2014

Field(s) of Expertise: Neurobiology

fairhall@uw.edu

Elaine Faustman*Professor and Director***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2019

Field(s) of Expertise: Toxicology

faustman@uw.edu

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

joe@gs.washington.edu

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

fields@u.washington.edu

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

chemcomp@gmail.com

Edmond H. Fischer*Emeritus Professor***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1973

Field(s) of Expertise: Biochemistry

efischer@uw.edu

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

tfleming@u.washington.edu

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

karlfleming@comcast.net

William H. Foege*Senior Fellow, Global Health Program, Bill &
Melinda Gates Foundation***Bill & Melinda Gates Foundation**

Section 4: Health Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Child survival and
development, population, preventive medicine**E. Norval Fortson***Professor Emeritus, Physics***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1998

Field(s) of Expertise: Experimental atomic
physics

fortson@phys.washington.edu

Jerry Franklin*Professor of Ecosystem Analysis***University of Washington**

Section 3: Biological Sciences

Inducted to WSAS 2016

Field(s) of Expertise: Forestry

jff@uw.edu

James Fredrickson*Chief Scientist***Pacific Northwest National Laboratory**

Section 3: Biological Sciences

Inducted to WSAS 2011

Field(s) of Expertise: Microbial ecology and biogeochemistry

jkfred56@gmail.com

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

froehner@uw.edu

Howard Frumkin

Professor Emeritus

University of Washington

Section 4: Health Sciences

Inducted to WSAS 2017

Field(s) of Expertise: Public health and the environment

frumkin@uw.edu

Daniel R. Gamelin*Harry and Catherine Jayne Board Endowed Professor of Chemistry***University of Washington**

Section 1: Physical and Mathematical Sciences

Inducted to WSAS 2015

Field(s) of Expertise: Inorganic nanoscience

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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

dayong@uw.edu

Stanley M. Gartler*Professor Emeritus of Medicine and Genome Sciences***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2008

National Academy of Sciences (NAS), 1989

Field(s) of Expertise: Molecular biology and human genetics

gartler@uw.edu

Michael H. Gelb*Harry and Catherine Jayne Board Endowed Professor of Chemistry and Professor of Biochemistry***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2012

Field(s) of Expertise: Development of technology for newborn screening for lysosomal storage diseases

gelb@chem.washington.edu

John Geyman*Professor Emeritus***University of Washington**

Section 4: Health Sciences

Inducted to WSAS 2019

National Academy of Medicine (NAM), 1985

Field(s) of Expertise: Family medicine

jgeyman@uw.edu

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
ceci@uw.edu

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
pgil6@comcast.net

Gary Gilliland

President and Director

Fred Hutchinson Cancer Research Center

Section 4: Health Sciences

Inducted to WSAS 2016

National Academy of Medicine (NAM),
Field(s) of Expertise: Cancer research and
treatment, blood diseases
gary@fredhutch.org

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
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Section 2: Engineering and Technology

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Section 5: Social and Behavioral Sciences

Inducted to WSAS 2018

National Academy of Sciences (NAS), 2002
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Cell Biologist

Fred Hutchinson Cancer Research Center

Section 4: Health Sciences

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National Academy of Sciences (NAS), 2011
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Section 5: Social and Behavioral Sciences

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National Academy of Sciences (NAS), 2011
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Section 4: Health Sciences

Inducted to WSAS 2008

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Section 3: Biological Sciences

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National Academy of Sciences (NAS), 2004

Field(s) of Expertise: Microbiology

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Section 2: Engineering and Technology

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National Academy of Engineering (NAE), 2016

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Section 5: Social and Behavioral Sciences

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National Academy of Sciences (NAS), 2001 & NAM
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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
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Section 5: Social and Behavioral Sciences

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Field(s) of Expertise: Prevention of child and
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longitudinal research, preventive intervention
research, social development

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National Academy of Medicine (NAM), 2008

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Section 2: Engineering and Technology

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National Academy of Engineering (NAE), 2006

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National Academy of Sciences (NAS), 1982 plus

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Section 2: Engineering and Technology

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Field(s) of Expertise: Early language and brain development

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Section 5: Social and Behavioral Sciences

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Field(s) of Expertise: Public policy analysis

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Section 5: Social and Behavioral Sciences

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