

TO: The University Senate
FROM: University Senate Nominating Committee
SUBJECT: Nominees for Vice Chairperson of the University Senate
REFERENCES: Bylaws, Section 3.20b, c
DISPOSITION: Election by the University Senate

The Nominating Committee proposes the following slate to serve as Vice Chairperson of the University Senate for the academic year 2020-2021. The nominees for Vice Chairperson are:

Stephen Beaudoin	Chemical Engineering
Ralph Kaufmann	Mathematics
Jozef Kokini	Food Science
David Sanders	Biological Sciences

Candidate biographical sketches are attached.

Stephen Beaudoin

Stephen P. (Steve) Beaudoin is a Professor in the School of Chemical Engineering. He joined the faculty at Purdue in 2003, following 7 years on the faculty at Arizona State University. He teaches primarily required undergraduate courses in chemical engineering, and performs research on particle and powder adhesion with current applications in energetic materials engineering and detection. He currently serves as the Leader of the Trace and Vapor Sensors Research Thrust in ALERT (Awareness and Localization of Explosives-Related Threats), a U.S. Department of Homeland Security-sponsored Center of Excellence in Explosives Research, and is the founding Director of the Purdue Energetics Research Center (PERC), which has grown from ~\$4M in external support in 2017 to over \$22M in 2019. Beaudoin has been a PI or co-PI on research programs with a value of ~\$50M, including ~\$8M credited to Beaudoin. He has authored over 100 articles in the refereed literature and delivered 66 invited and 130 contributed presentations at technical conferences. His H-index is 33. Beaudoin has won the Faculty Early Career Development Award from the National Science Foundation; has been named a Purdue University Faculty Scholar (2006 – 2011) and was an inaugural Purdue University Provost Fellow (2009). He has won numerous teaching and mentoring awards at Purdue, including election to the Teaching Academy as a Fellow (2018); the Outstanding Faculty Fellow Award from the 3rd St. Suites (2017); the College of Engineering A.A. Potter Award for Outstanding Undergraduate Instruction (2017); the Shreve Prize for Outstanding Undergraduate Instruction in Chemical Engineering (2017, 2020); the College of Engineering Outstanding Mentor Award (2015); and the Outstanding Mentor Award from the Purdue OXE (student honor society; 2007).

Beaudoin has served the University in many capacities. At the University level, he has served as the Academic Director, Teaching and Learning Technology (2015-2018); as Interim Associate Vice Provost for Academic Affairs (2014-2015); and as an inaugural member of the Provost's Diversity Leadership Group (2004-2008). He has served the College of Engineering as a Lead of a Dean's Strategic Plan Implementation Team (2011 – 2014); as a Member of the Diversity Action Committee (2008-2012); and as a Member of the Grade Appeals Committee 2004 – 2006). Finally, he has served the School of Chemical Engineering as Associate Head (2007 – 2008); as Director of Undergraduate Studies (2008 – 2009); as Director of Graduate Recruiting (2011 – 2014) and as Director of Undergraduate Recruiting and Retention (2005 – 2014).

This is Beaudoin's 3rd term on the University Senate. He has served the Senate as a Member of the Steering Committee (2015 – 2018; 2019 – present), Advisory Committee (2019 – present), and as the Co-Chair of the Senate Select Committee on Purdue Global (2017 – 2019).

Ralph Kaufmann

Ralph Kaufmann is a professor in the Department of Mathematics, who joined the Purdue faculty in 2007. He has been full professor since 2012 and has a courtesy appointment in the Department of Physics & Astronomy since 2020. His research interests lie in algebraic topology, algebraic geometry, mathematical physics and higher structures. He has published extensively in these areas. He is a co-founder and co-chief editor of a professional journal.

He earned a double BSc in mathematics and physics, as well as an MSc in physics, an MA in Philosophy and a PhD in mathematics. He held post-doctoral positions at two of the internationally leading research institutions -the Max-Planck-Institute for Mathematics in Bonn, Germany and the Institut des Hautes Etudes Scientifiques near Paris, France.

He is in strong demand as a speaker nationally and internationally, is a frequent guest at the world's foremost institutes for mathematical research institutes and a sought-after referee for journals and government foundations. His research has been funded by the NSF, a Humboldt Foundation fellowship, the Simons Foundation and the European Research Council as a Marie Curie Fellow. He has twice been a member of the Institute for Advanced study at Princeton. As a student he was a summer fellow at CERN, the European Center for Nuclear Research and a fellow of the national merit scholarship foundation of Germany.

Besides extensive research in several fields of mathematics he has reached across disciplines with co-operations and research initiatives jointly with physics, chemical engineering and philosophy. He has also written commentaries for a poet and about mathematical language in art and other disciplines. Through this he has had the opportunity to gain insight into the different cultures of several colleges and departments.

Ralph Kaufmann has a great passion for teaching, teaching both small and large lectures. He is particularly involved in undergraduate service courses, advanced undergraduate courses and graduate courses. He is and has been an advisor to many PhD students. He has been awarded the Ruth and Joel Spira award for excellence in graduate teaching and mentoring.

Ralph Kaufmann became a member of the senate in Fall 2015 as a senator at-large for the college of science and was re-elected in Fall 2018. He was member of EPC committee from 2015 until 2018 and was the chair of the EPC for 2016/17 and 2017/18. During this time, he was been part of the senate leadership and served on the advisory committee. Since Fall 2018 he has been a member of the FAC. He has furthermore volunteered for many subcommittees, such as academic integrity, academic rigor and transfer credit evaluation. His further service contributions come through several departmental committees, such as the personnel committee, undergraduate, graduate committees, through the university grievance committee and through service on the science dean search. He is currently on the UCAP committee in the College of Science and since Fall 2018 a representative of the Faculty Council of the College of Science.

Ralph Kaufmann is married with two sons. His wife Birgit is a full professor with a joint appointment in the Mathematics and Physics & Astronomy. Their sons are attending the West Lafayette schools.

Jozef Kokini

Biographical sketch not received. [Link to CV](#)

David Sanders

David Sanders is an Associate Professor of Biological Sciences at Purdue University. He received his Bachelor of Science degree from Yale College in Molecular Biophysics and Biochemistry. He conducted his Ph.D. research in Biochemistry with Dr. Daniel E. Koshland, Jr., who was then editor of the journal *Science*, at the University of California at Berkeley. David Sanders originated the idea of the "Molecule of the Year" feature in *Science*. His Biochemistry Ph.D. thesis concerned his discovery of a critical biochemical reaction that underlies how bacteria sense and respond to changes in their

environments. Following a position as a Visiting Scientist at the University of California at San Francisco, where he studied signal-transducing GTPases, he was a postdoctoral fellow at the Whitehead Institute for Biomedical Research, which is affiliated with M.I.T. It was there that he began his studies on the entry of viruses into cells with a focus on the inhibition of infection and applications to gene therapy.

Dr. Sanders joined the Markey Center for Structural Biology at Purdue University in 1995, where he was Executive Committee Representative of the Purdue University Life Science (PULSe) Molecular Virology program and is also a member of the Birck Nanotechnology Center and the Oncological Sciences Center. He was the discoverer of a biochemical reaction that leads to the entry of cancer-causing retroviruses into cells. Professor Sanders also is the author of two U.S. patents on novel gene-therapy delivery techniques. His work on the Ebola virus led to his participation in the U.S. Defense Threat Reduction Agency's Biological Weapons Proliferation Prevention Program, a product of the Nunn-Lugar legislation. His responsibilities included inspecting the Vector laboratory in Siberia, which was the site of biological-weapons development in the era of the Soviet Union. He has investigated the transmission of viruses from other animals to humans and is often invited to speak on ethics, biodefense, evolution, gene therapy, vaccination and influenza viruses in public forums. Dr. Sanders has been interviewed by media around the world about his research, the role of science in public policy, and the future of higher education. He is a recipient of the National Science Foundation CAREER Award for his work on an enzyme that is involved in production of the greenhouse gas and potential energy source, methane. He is also an American Cancer Society Research Scholar and received the Lions Club Cancer Research Award. Professor Sanders was the 2015 Haines Lecturer in Biochemistry at Wabash College and is the 2019 Moses Passer Lecturer at Cornell University. He was the 75th Anniversary of Los Alamos National Laboratory Lecturer on Scientific Integrity. He was also a principal investigator on a Howard Hughes Medical Institute Experiment Grant for the reform of the undergraduate premedical curriculum. Dr. Sanders serves on the Federation of American Societies of Experimental Biology (FASEB) Science Policy Committee and Research Enterprise and Breakthroughs in Bioscience Subcommittees. He was elected to the American Association of University Professors National Council in 2018. He also was elected to the West Lafayette City Council in 2015.

At Purdue University, Dr. Sanders has served on numerous committees at the departmental, college, and university level. Among the posts he has filled, Prof. Sanders has served as Convener of the Department of Biological Sciences Safety, Undergraduate Studies, and Undergraduate Curriculum Reform Committees. He has been the yearly organizer of the Professor Miriam Hasson Memorial Lecture. Professor Sanders was elected the inaugural Chair of the PULSe Admissions Committee. He was elected Chair of the College of Science Grievance Committee and Chair of the University Grievance Committee. Dr. Sanders has served as a member of the College of Science Faculty Council and the Undergraduate Curriculum and Academic Policy Committee. He also served as the Purdue University representative on the Indiana State Core Transfer Library Life and Physical Sciences Academic Panel. Professor Sanders has served on the Purdue University Senate Faculty Affairs Committee and is currently a member of the Student Affairs Committee. He was elected three times to serve as Chair of the Steering Committee and was elected in 2015 as Vice-Chair and subsequently served as Chair of the University Senate. He also serves as Chair of the Student Affairs Committee.

Approving

Frederick Berry
Rayvon Fouché
Michael McNamara
Larry Nies
Jan Olek
Jeremy Reynolds
Qifan Song

Absent

Martin Corless
Robert Nowack