

**ITEM 148-2001-R0910**

**Authorization to Confer the Title of Professor Emeritus of Mathematics on Curtis R. Vogel; Montana State University – Bozeman**

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**THAT**

Upon the occasion of the retirement of Dr. Curtis R. Vogel from Montana State University, the Board of Regents wishes to express its appreciation for his service to the University, the Montana University System and the people of the State of Montana.

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**EXPLANATION**

Dr. Curt Vogel received a B.S. in Mathematics from Montana State University in 1977, and a M.S. (1979) and Ph.D. (1983) in Mathematics from Colorado State University. After two years as an Assistant Professor in the Department of Mathematics and as an Associate Mathematician at Ames Laboratory, Iowa State University, he joined the Department of Mathematical Sciences at Montana State University in January, 1986, was promoted to Professor of Mathematics in 1995, and has been on the faculty at MSU for the past 24 years.

Dr. Vogel has been heavily involved in the applied mathematics curriculum at both undergraduate and graduate levels during his career. As a teacher, he is known for his high standards and has taught nearly the entire applied mathematics curriculum at MSU. He directed six Ph.D. students and four postdoctoral scholars.

Over the years Dr. Vogel has served the international applied mathematics community, including work as the Associate Editor for the *SIAM Journal of Numerical Analysis*. He has served as a referee for many different applied mathematics journals and has reviewed numerous grant proposals. In 1992 the Society for Industrial and Applied Mathematics published his book entitled *Computational Methods for Inverse Problems* in their Frontiers in Applied Mathematics Series.

Dr. Vogel has over 70 publications in applied mathematics and numerical analysis as well as in applications to image deblurring and reconstruction, atmospheric optics and deformable mirrors, and their uses in designing and constructing extremely large telescopes. His work on the Thirty Meter Telescope Project with scientists at both the NSF Center for Adaptive Optics and the Optical Sciences Company has been fundamental as they strive toward their goal of constructing this telescope to see deep into space. His research covers a variety of topics, including inverse problems, parameter identification, the solution of integral equations, optimization, the use of preconditioners, and multigrid methods.

Dr. Vogel's research has been funded by more than 30 grants in various fields. These funding bodies include the National Science Foundation, the Department of Energy, the Air Force Office of Scientific Research, the Center for Adaptive Optics, the National Institutes of Health, the Optical Sciences Company, and Los Alamos National Laboratory. The projects encompassed a wide variety of scientific fields.

Dr. Vogel's work has led to numerous prestigious appointments including as a Visiting Fellow at the Australian National University; an Associate Mathematician at Ames Laboratory at Iowa State University; a Research Associate at the Center for Interfacial Microbial Process Engineering at Montana State University; and a Senior Member at the NSF Center for Adaptive Optics at the University of California Santa Cruz. He has been and continues to be a great asset to the university and the state of Montana.

For these and other contributions, the Board of Regents of Higher Education is pleased to confer upon Curtis R. Vogel the rank of Professor Emeritus of Mathematics at Montana State University and wishes him well for many years in the future.

