

## **Emeritus Award for Research and Scholarship 2020**

This award was established by the Emeritus College Advisory Board to recognize emeritus faculty members who continue to produce extraordinary research and scholarship, either in their discipline or in a new field. The award is presented in even-numbered years.



**Dr. David Bodde,  
Professor and Senior  
Fellow Emeritus of  
Automotive  
Engineering,  
International Center  
for Automotive  
Research**

- B.S., West Point Military Academy, (Served in the Army in Vietnam)
- M.S., Massachusetts Institute of Technology, 1972, Nuclear Engineering
- M.S., Massachusetts Institute of Technology, 1973, Business Management
- Doctor of Business Administration, Harvard University, 1976
- Vice President, Midwest Research Institute
- Assistant Director of U.S. Congressional Budget Office
- Deputy Assistant Secretary in the U.S. Department of Energy
- Professor, ICAR, Clemson University, 2004-2016
- 2016-17, Provided expertise to the **National Academies (of Sciences, Engineering and Medicine)** by serving on a committee charged with evaluating the joint science and technology programs in the U.S. Department of Energy and U.S. auto makers. Co-authored in 2017 the final report, entitled, "Research Program of the U.S. Drive Partnership".
- 2017, Invited lecture, **Long Island University**, "Making Sense of an Unknowable Future: Innovation and Entrepreneurship When You Can't Possibly Know Enough".

- 2018, Invited lecture, **Clemson University-IEEE Power Systems Conference** on technology disruption in the electric industry entitled, “Exponential Technologies and Innovation Ecosystems”.
- 2018-20, Served as an invited speaker, writer, and expert for the in three venues for the **Inter-American Development Bank** on the topic of self-driving cars.
- 2016-2020, Senior scholar with the **Ewing Marion Kaufmann Foundation** wherein he developed issue papers on entrepreneurship and urban mobility, including a model mobility enterprise to enable low-income, inner city residents of Kansas City to reach jobs in the far suburbs.
- Expanding from his work at the Kaufmann Foundation, he has begun a book project with a working title of “Missional Entrepreneurships: How Values-Based Enterprises Build Freedom from Chronic Poverty”. This is a faith-inspired endeavor of his through Evangelical churches utilizing intercity missionaries and principles of technology-based entrepreneurship principles to relieve chronic poverty.
- Dr. Bodde continues his life as a scholar, applying his knowledge and expertise to societal challenges such as global energy issues, technological changes that threaten the automotive industry, and, yes, chronic poverty
- Dr. Bodde believes after our COVID-19 pandemic passes, chronic poverty by displaced workers will prevail in the United States and that more will be needed than economic incentives. Namely, secular and church programs that touch and enrich the human spirit.



**Dr. Stephen T.  
Hedetniemi,  
Professor Emeritus  
and Chair Computer  
Science**

- B.S., University of Michigan, 1960, Mathematics
- M.S., University of Michigan, 1962, Communication Sciences
- Ph.D., University of Michigan, 1966, Communication Sciences
- Dr. Hedetniemi's graduate degrees in Communication Sciences, which was the forerunner of Computer Science, enabled him along with other personal qualities to be on the ground floor of the emerging discipline of Computer Science. In other words, throughout his academic career of 42 years and continuing into his retirement, he has been in demand and has been very active in forming Ph.D. programs in computer science department at various institutions and always seeking to help students in their academic endeavors.
- University of Iowa, Department of Computer Science (1967-1971; Assistant and Associate Professor)
- University of Virginia, Department of Applied Mathematics and Computer Science (1971-1976; Associate Professor)
- University of Oregon, Department of Computer and Information Science (1977-1982, Professor and Department Head)
- Clemson University School of Computing (1982-2011, Professor; Acting Department Chair; Department Chair; 2000, Board of Trustees, Award of Faculty Excellence)
- During his career, Dr. Hedetniemi published 225 journal articles and other refereed publications.

- There is very likely a Stephen Hedetniemi algorithm that has been re-adapted and is likely used in Google searches according to a reliable source of Stephen!
- The thrust of his publications after retirement involve algorithms and graph theory.
- **Post-retirement from 2012-2020**, Dr Hedetniemi has published (with co-authors), 64 articles in respected journals; edited three books in which he published 10 articles/chapters. His total publication count as of today stands at 300.
- He currently has 16 publications accepted and not yet published that include two books (Springer is the publisher.), which he co-edited and which likely includes chapters that he authored and co-authored. The two books are *Graph Theory* and *Topics in Domination in Graphs*.
- A third book to be published by Springer honors him in the title and does not include him as an editor: *From Domination to Coloring* with the subtitle *Stephen Hedetniemi's Graph Theory and Beyond*.
- Dr. Hedetniemi was asked what motivates him in his career and what still motivates him today to be so heavily involved in research and scholarship? "I love making discoveries. I enjoy working with other professionals and developing computer-based strengths in students. Currently, I am working with a number of students during this COVID-19 pandemic because it so difficult for them to function in these times as students.
- He has a current h-index of 58, with 7,000 of his total number of citations, that is approaching 20,00, and 64 publications toward his total lifetime