



Grants: May 2007

1. **Betoney, Diana.** US Department of Education. \$439,795. Educational outreach program for low-income, first-generation high school students to assist them in preparation for post secondary education. (Educational Support Services)
2. **Carroll, Richard.** US Department of Education. \$200,000. Increase the number of certified and qualified special educators teaching students with low incidence disabilities in Arizona. (Institute for Human Development)
3. **Grabarek, Ellen.** Del E. Webb Foundation. \$76,500. Provide outreach and dental care to elderly and homebound patients. (Dental Hygiene)
4. **Helford, Paul.** Breda University, Netherlands. \$64,112. The School of Communication will provide three-week summer workshops on television production. (Communication)
5. **Porter, Tim.** National Security Technologies. \$72,653. Fabrication and testing of piezoresistive microcantilever sensors for the rapid detection and inventory of desert tortoise habitat. (Physics)
6. **Trotter, Robert.** General Motors Cultural Research. \$154,708. Apply ethnographic and social network research methodology to investigate the factory's work culture at GM headquarters in Detroit. (Anthropology)

Selected Books/Creative Activity/Recognition & Awards: May 2007

1. **Blakely, Ron, & Umhoefer, Paul.** (May, 2007). Comparing models of the accretionary history of Western North American terranes: Ideas for advancing understanding with paleogeographic maps. Paper presented at the Geological Society of America, Bellingham WA. (Geology)
2. **Connell, Charles.** (May, 2007) The failure of crusade propaganda against the Mongols. Paper presented at the 42nd International Congress on Medieval Studies in Kalamazoo, MI. (History)
3. **Kaufman, Darrell,** Anderson, R.S., Daigle, T., Kathen, K., & Werner, A. (May 2007). Two thousand years of environmental change at Cascade and Goat Lakes, southern Alaska. Paper presented at the 37th International Arctic Workshop, Skaftafell, Iceland. (Geology)
4. McDowell, Nate G., Adams, Henry D., Bailey, John D., & **Kolb, Thomas E.** (2007) The role of stand density on growth efficiency, leaf area index, and resin flow in southwestern ponderosa pine forest. *Canadian Journal of Forest Research* 37(2): 343–355. (Forestry)
5. **Nabhan, Gary Paul.** 2007. Agrobiodiversity change in a Saharan desert oasis, 1919-06. *Economic Botany* 61(1): 31-43. (Environmental Sciences)
6. **Schlosberg, David.** (2007). *Defining environmental justice: Theories, Movements, and Nature.* Oxford: Oxford University Press. (Political Science)
7. **Shuster, Steve.** (May, 2007) Mating system evolution. Invited speaker at the Fourth Kristineberg Symposium, Kristineberg Marine Research Station, Fiskebäckskil, Sweden. (Biology)

SABRE: Strategic Alliance for Bioscience Research and Education

SABRE is a consortium of NAU faculty and staff, and Northern Arizona business, government, and entrepreneurs engaged in interdisciplinary research and education in bioscience, biotechnology, and bioengineering. The goal of SABRE is to integrate bioscience research into the workforce and economic development of Northern Arizona. SABRE's partners include Arizona Technology Enterprises (NAU's technology transfer office), the Greater Flagstaff Economic Council, Northern Arizona Technology and Business Incubator, Science Foundation Arizona, and the Flinn Foundation. Research endeavors under the SABRE umbrella include the Center for Microbial Genetics and Genomics, the Biofilm Infectious Disease Laboratory, and Sustainable Energy Solutions, among many others. SABRE is governed by an Executive Committee made up of 11 NAU faculty and one community member; its Director is Dr. Tim Porter. To find out more, go to <http://www.physics.nau.edu/~porter/SABRE/index.htm>.

Research Profiles

Timothy L. Porter received his BS and MS in Physics from California State University, and his PhD from Arizona State University in 1988. He was Assistant Professor in NAU's Department of Physics and Astronomy Department from 1988 to 1998, has been Professor since 1998, and was Department Chair from 2001 to 2005. Before working on his doctorate, Dr. Porter was a member of the Physics Technical staff at Hughes Aircraft Company.

Dr. Porter's many accomplishments include:

- Over \$2.5 million in research funding since coming to NAU
- 74 single and co-authored articles in refereed journals such as *Medical Engineering and Physics* and *Journal of Physical Chemistry*, and 6 book chapters
- 3 US patents for his microcantilever and hybrid sensors, a non-invasive device used to measure hydration in humans
- NAU's first license agreement with a private company commercializing hydration sensors based on piezoresistive microcantilever technology

Additionally, Dr. Porter has been active in promoting research among undergraduate students serving as the Institutional Liaison to the National Council on Undergraduate Research on behalf of NAU. He also serves on the Intellectual Property Committee.

Robert T. Trotter received his BA from the University of Nebraska at Lincoln and his MA and PhD, both in Anthropology, from Southern Methodist University in Dallas, Texas. Prior to coming to NAU in 1985, he served in teaching and leadership positions in the University of Texas system at UT Arlington and Pan American. At NAU, he was Professor of Anthropology and served as Chair of the Anthropology Department from 1985 to 1995. Dr. Trotter became Regent's Professor in 1995.

Among Dr. Trotter's many accomplishments are:

- Approximately \$6 million in research funding since coming to NAU
- 16 honors and awards, including several for his innovative research on manufacturing culture at General Motors and recognition for improvements in cross-cultural health care on the US Mexico border
- 8 single and co-authored books, 41 book chapters, 14 monographs and journal special editions, and 69 journal articles
- A US patent for a "System and Model for Performance Value Based Collaborative Relationships"

In addition, Dr. Trotter, working for the Centers for Disease Control and the World Health Organization, has applied ethnographic research methodology to investigate AIDS and substance abuse culture toward the goal of strategizing prevention. And, he has been a grant reviewer for NSF, USDOE, NEH, National Geographic, and the Department of Health and Human Services.