

Brian J. Cooper  
Associate Professor and Chair/Geology Program Coordinator  
Department of Geography and Geology  
College of Sciences

### **Degrees Earned**

Ph.D. in Geology, Virginia Polytechnic Institute and State University, 1988

M.S. in Geology, Virginia Polytechnic Institute and State University, 1978

B.A. in Geology, University of California at Santa Barbara, 1976

B.A. in Mathematics, University of California at Santa Barbara, 1976

### **Peer-Review Publications and Artistic Performances/Exhibitions**

#### **Articles**

Cooper, B.J., G.V. Gibbs, and F.K. Ross, 1981, *The effects of heating and dehydration on the crystal structure of hemimorphite up to 600°C*.  
*Zeitschrift für Kristallographie*, 156, 305-321.

Speer, A.J. and Cooper, B.J., 1982, *Crystal structure of synthetic hafnon, HfSiO<sub>4</sub>: comparison with zircon and the actinide orthosilicates*. *American Mineralogist*, 67, 804-808.

Seal, R.R., Cooper, B.J., and Craig, J.R., 1985, *Anisotropic sphalerite of the Elmwood-Gordonsville deposits, Tennessee*. *Canadian Mineralogist*, 23, 83-88.

Netoff, Dennis I., Brian J. Cooper, and Ralph R. Shroba; 1995, *Giant Sandstone Weathering Pits Near Cookie Jar Butte, Southeastern Utah*. C. van Riper III, ed., *Proceedings of the Second Biennial Conference on Research in Colorado Plateau National Parks*, p. 25-53. National Park Service Transactions and Proceedings Series NPS/NRNAU/NRTP-95/11.

#### **Books**

Cooper, B., Netoff, D.I., and Hill, J.C., 2010, *Physical Geology Laboratory Manual*, The Start Group, 4<sup>th</sup> edition, Huntsville, TX, 190 p.

Baldwin, C., Cooper, B., Netoff, D., Solum, J., and Degenhardt, J., 2007, *Geologic Hazards and Resources Laboratory Manual*, The Advertising Agency, Huntsville, TX 172 p.

Baldwin, C., Cooper, B., Netoff, D., Solum, J., and Degenhardt, J., 2007, *eGeologic Hazards and Resources*, The Advertising Agency, Huntsville, TX 830 p.

## Peer-Review Presentations/Posters

### 1. National/International

Cooper, B.J., 1980, *Calculated maximum birefringence of submicroscopic composite zinc sulfides* (abstr.). Transactions of the American Geophysical Union, 61, 408.

Cooper, B.J., 1985, *Multidirectional twinning and stacking disorder in natural zinc sulfides* (abstr.). Geological Society of America, Annual Meeting, Orlando, Florida, Abstracts with Programs, 17, 552.

Cooper, B.J., 1986, *Chloritoids: dependence of the optical properties upon chemical variation and polytypic intergrowth* (abstr.). Geological Society of America, Annual Meeting, San Antonio, Texas, Abstracts with Programs, 18.

Netoff, Dennis I., Brian J. Cooper, and Ralph R. Shroba; 1994, *Origin and Development of the Giant Sandstone Weathering Pits near Cookie Jar Butte, Southeastern Utah*. Geological Society of America, Rocky Mountain Section, Abstracts with Programs, Volume 26, Number 6.

Cooper, Brian, 2000, *Fluorescent Gypsum Crystals from Houston County, Texas* (abstr.). Geological Society of America, South-Central Section, 34<sup>th</sup> Annual Meeting, Fayetteville, Arkansas, Program, 32, A-6.

Cooper, B.J. and Gunter, M.E., 2002, *Calculations, observations, and applications of birefringence of natural and cation-exchanged zeolites* (abstr.). Geological Society of America, Annual Meeting, Denver, Colorado, October 29. 2002 Abstracts with Programs, Volume 34, Number 6, page 350.

Torrez, B.D. and Cooper, B.J., 2004, *Using a Field Project in the Arbuckle Mountains to Promote Hypothesis-Based Learning in a Structural Geology Course*. [abstract and poster session], Geological Society of America, Annual Meeting, Denver, Colorado, November 7. 2004 Abstracts with Programs, Volume 36, Number 5, page 164.

Cooper, B.J., 2005, *Modeling Optical Properties* (abstr.) 15<sup>th</sup> Annual Goldschmidt Conference, Moscow, Idaho, May 25. Abstracts with Programs, Volume 15, page A731. Invited speaker.

## 2. State

Cooper, Brian, 1987, *Dependence of optical properties on variations in crystal growth* (abstr.). Texas Academy of Science, Annual Meeting, SHSU, Huntsville, Texas, Program, 90, 36.

Cooper, Brian, 1991, *A detailed investigation of metacarbonates in the Packsaddle Schist, Llano County, Texas* (abstr.). Texas Academy of Science, Annual Meeting, SFASU, Nacodoches, Texas, Program, 94, 96.

Cooper, Brian, 1999, *Fluorescent Gypsum Crystals from Houston County, Texas: A preliminary report* (abstr.). Texas Academy of Science, Annual Meeting, Texas Lutheran University, Seguin, Texas, Program, 102, 73.

## Work or Professional Experiences

2011--	Chair, Department of Geography and Geology
2010-2011	Interim Chair, Department of Geography and Geology
1988--	Geology Program Coordinator
1985-1988	Acting Geology Program Coordinator
1991--	Associate Professor
1985-1991	Assistant Professor
1982-1985	Lecturer
1982--	Sam Houston State University, Geology Program,
1981-1982	Radford University, Geology Department, Instructor
1976-1981	Virginia Polytechnic Institute and State University, Department of Geological Sciences, Teaching Assistant.