

Luke D. Olsen

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Education

Graduate student in Earth and Planetary Sciences
Washington University in St. Louis, St. Louis, MO
Department of Earth and Planetary Sciences

Bachelor of Science, Geoscience major with history minor 2004

The George Washington University, Washington D.C.

Senior Thesis: Geology of Mesoproterozoic Basement Rocks,
Big Meadows 7.5-minute quadrangle, Virginia

Air and Space Basic Course, Squadron Officer College 2004

Maxwell Air Force Base, Montgomery, AL

Air Force ROTC Field Training Leadership Course 2004

Tyndall Air Force Base, Panama City, FL

Career History & Accomplishments

Undergraduate Pilot Training, USAF, *Columbus Air Force Base*, 2004
(2005-current)

- Completed Academic Phase I of training with a 94.8% average
- Completed 32.1 hours of rigorous flying training conducted in the T-37
- Honorable Discharge from Air Force due to reduction in force

Commander's Support Staff, 2nd Lt., *Columbus Air Force Base*,
(2004-2005)

- Provided administrative capabilities for the 50th Flying Training Squadron Commander in support of the mission to train combat fighter pilots.
- Conducted essential ancillary training for over 200 Officers and Enlisted members including Anti-Terrorist training, Environmental Awareness, and Network Security Training.

Led the Air Force Assistance Fund charity campaign achieving 102% of the squadron goal.

Field Researcher, *U.S. Geological Survey*, (2003-2004) 2002

- Served as Research Assistant in geologic mapping project. Completed bedrock geologic map of Mesoproterozoic basement rocks in the Big Meadows quadrangle, Blue Ridge Mountains, Virginia.
- Performed detailed petrographic and X-ray fluorescence geochemical analyses of over 30 bedrock samples.
- Assisted Professor Richard Tollo and Dr. John Aleinikoff on an extensive 3-day field trip attended by 32 professional geologists explaining the origin and history of the Blue Ridge Mountains.

Student Assistant, *International Services Office, GWU*, (2002-2003)

- Handled administrative functions for the International Services Office providing assistance to over 2000 international students.

- Prepared visa documents and letters for international students.
- Established reports to track confidential student files.

Ecology Director, Cowles Scout Reservation, BSA, (Summer 2001)

- Responsible for the instruction, training, and development of the summer ecology program and management of 5 staff members.
- Personally instructed the Environmental Science, Fish and Wildlife Management, Oceanography, and Astronomy course to over 300 Boy Scouts ages 12-17.
- Received high praise as “one of the hardest working, most enthusiastic and driven staff members” by the Program Director.

Awards & Credentials

- Private Pilots Certificate, 50 hours of flying training in a Cessna 172, (*Sept – Dec 2004*).
- Top Secret Security Clearance (*March 2005*), Secret Security Clearance (*March 2002*).
- As the Assistant Team Leader, led class at Air Space Basic Course to achieve “outstanding performance” and distinguished as “the #1 flight in the 35th Student Squadron”.
- Geza Teleki Award, Departmental honors for top undergraduate performer, Department of Earth and Environmental Science, George Washington University (*May 2004*).
- The American Mineralogist Undergraduate Award for “exceptional interest, ability and performance as a student of mineralogy”, Mineralogical Society of America, (*May 2004*).

Publications

- GEOLOGY OF MESOPROTEROZOIC BASEMENT ROCKS, BIG MEADOWS 7.5-MINUTE QUADRANGLE, VA (IN PRESS), TOLLO, Richard and OLSEN, Luke, Department of Earth and Environmental Sciences, George Washington University, Washington DC 20052
- MAGMATIC RECORD OF GRENVILLE-AGE OROGENIC AND POST-OROGENIC PROCESSES, BLUE RIDGE PROVINCE, VIRGINIA, TOLLO, Richard¹, ALIENIKOFF, John², BORDUAS, Elizabeth¹, OLSEN, Luke¹, (1) Department of Earth and Environmental Sciences, George Washington University, Washington DC 20052, rtollo@gwu.edu, (2) U.S. Geol Survey, Denver CO 80225