

Resume – Charles M. Schlinger, Ph.D., P.E., R.G. P.Gp., R.G., P.Gp.

EXPERIENCE & EXPERTISE

Water resources and water supply engineering on a wide range of projects; civil engineering; geotechnical engineering for roadways, dams and impoundments; topographic surveying using conventional and Global Navigation Satellite System (GNSS) equipment and methods; geophysical and geological investigations.

PRESENT EMPLOYMENT

- 4/09-present EN3 Professionals, LLC, Flagstaff, Arizona. *Principal*. Energy, Engineering and Environmental consulting for corporate, governmental, legal & tribal clients.
- 8/99-present Department of Civil & Environmental Engineering, Northern Arizona University, Flagstaff, Arizona. *Associate Professor*. Water systems/resources, geotechnical & geomatics engineering research and teaching; project and program development; university and public service.

PAST EMPLOYMENT

- 3/96-4/09 Plateau Engineering, Flagstaff, Arizona. *Project Manager*. Civil engineering and geoscience services for municipal, county, school district, mining industry and private sector clients; business development, field construction observation, and occasional surveying. (*Served in a part-time consulting engineering capacity from 8/99 through 3/09.*)
- 6/94-1/96 STS Consultants, Ltd., Minneapolis, Minnesota. *Geotechnical Engineer*. Tailings basin and dam engineering, subsurface exploration, geotechnical engineering, testing and monitoring, geophysical investigations, construction testing and business development.
- 12/91-2/94 Science Applications International Corporation, Las Vegas, Nevada. *Senior Scientist and Geotechnical Engineer*. Hydrogeological and engineering site characterization, GIS operation and analyses.
- 7/90-12/91 Department of Civil & Environmental Engineering, Utah State University. *Graduate Student in Geotechnical Engineering*.
- 7/83-6/90 Department of Geology and Geophysics, University of Utah. *Assistant Professor*. Geophysical, geological & materials science research and teaching.
- 9/77-6/83 The Johns Hopkins University, Baltimore, Maryland. *Teaching and Research Assistant – Graduate Student*. NASA-sponsored geophysical & geological research.
- 6/78-9/78 Amoco Production Company, Tulsa, Oklahoma. *Seismologist - Summer Intern*. 3D seismic data acquisition modeling and processing.
- 9/75-9/77 The University of Michigan at Flint. *Teaching, Laboratory and Field Assistant*.

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EDUCATION

Ph.D., The Johns Hopkins University, 1983. *Concentration in geophysics and geology*. NASA-sponsored research: the interpretation of geomagnetic field anomalies.

M.S., Civil and Environmental Engineering, Utah State University, 1991. *Studied geotechnical engineering and ground water hydrology*.

B.S., Physical Geography, The University of Michigan at Flint, 1977. *Concentration in land-use and environmental planning*. Graduated Magna Cum Laude.

NORTHERN ARIZONA UNIVERISTY ACTIVITIES AND COURSES

- Founding Co-Director and Past Director of the *Watershed Research & Education Program* at Northern Arizona University (2000-2008)
- Funded research
- Advisor to numerous undergraduate and graduate Civil and Environmental Engineering students.
- Courses routinely taught:
 - CENE 270 – Surveying & Lab
 - CENE 383 – Geotechnical Engineering I
 - CENE 450/550 – Geotechnical Engineering II
 - CENE 333 – Applied Hydraulics
 - CENE 333L – Applied Hydraulics Lab

PROFESSIONAL REGISTRATION AND MEMBERSHIPS

- *Registered Professional Engineer* (MN No. 24459; AZ No. 30615; CA No. 60331; MI No. 6201052934; CO No. 43991)
- *Registered Professional Geophysicist* (CA No. GP 994)
- *Registered Professional Geologist* (AZ No. 33755, WI No. 155)
- *Certified Professional Geologist* No. 9554
- American Institute of Professional Geologists (AIPG)
- American Society of Civil Engineers (ASCE)
- Arizona Hydrological Society (AHS)
- Arizona Water Association
- Association of State Dam Safety Officials (ASDSO)
- American Water Works Association (AWWA)

PUBLIC SERVICE

- Watershed Research & Education Program at NAU (2008-2011)
- City of Flagstaff Water Commission (2008-2009)
- Yavapai County Water Advisory Committee – Technical Coordinating Subcommittee (2001-2002)
- Coconino Plateau Water Advisory Council (Fall 2000 to summer 2002; 2007).
- Coconino County Planning and Zoning Commission (Summer – Winter, 1999).