

# ALLYSON K. ANDERSON BOOK

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## EMPLOYMENT & RESEARCH EXPERIENCE

### **AMERICAN GEOSCIENCES INSTITUTE, ALEXANDRIA, VA**

*Executive Director & Executive Publisher 2016- Present*

- Responsible for proactively leading the strategic and corporate direction of the organization in partnership with senior AGI managers and the Executive Committee.
- Lead the AGI enterprise by overseeing the administration, programs, and implementation of the strategic plan of the organization. Milestones include:
  - Streamlined and modernized administration processes based on best practices for accounting and human resources;
  - Created a new strategic plan for the Institute in FY 2017;
  - Developed and led a high-profile media campaign with a nationally recognized education spokesperson promoting the flagship educational product, Earth Science Week;
  - Managed a full building renovation to ensure a safe, energy/resource efficient, healthy building for AGI staff and its visitors; and
  - Created an empowered, safety-conscious workforce at the Institute through training and engagement programs.
- Develop and cultivate resources to ensure the financial health of the organization. Responsible for an annual budget of approximately \$6 million to \$9 million.
- Work with the Executive Committee to ensure execution of AGI's mission and financial health for its members, staff, stakeholders and the broader public.
- Manage and lead a staff of 72 – 90 employees by ensuring equitable pay, competitive benefits, and maintaining a safe, collaborative workplace at AGI's headquarters. Enhanced the Institute's diversity profile through new programs and inclusive recruiting.
- Mentor and develop the leadership skills of AGI's leadership team and emerging new leaders.
- Develop and cultivate products and services in the areas of geoscience policy, education, emerging critical issues, higher education, workforce development, and the production of scholarly materials for the Institute's ~260,000 members (50+ member organizations).
- Publish a monthly magazine (EARTH), a global research reference database (GeoRef), educational curricula (K-12), workforce data analytic products, and supporting digital resources.
- Provide written and oral testimony to Congressional Committees related to natural resource policy, energy production, and geoscience research funding.

### **BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT, WASHINGTON, DC**

*Associate Director - Strategic Engagement 2013–2016*

- Developed and finalized the Bureau's regulatory agenda. Key rulemakings included: Safety and Environmental Management System II Rule; Production Safety Systems Rule; Arctic Drilling Safety Rule; Blowout Preventer and Well Control Rule; and Crane Safety Rule. Led strategic and long-term foresight planning for the Bureau.

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- Devised and executed strategies for internal and external stakeholder engagement. Led the Bureau's strategic engagement staff, comprised of congressional, international, public affairs, political and policy program areas. Key team milestones included:
  - Restructured International Affairs program. Refocused the program to align with Bureau's strategic objectives using new staff to engage international regulators in the Arctic states and the Americas. New international activities and engagements included: implementation of the US-Mexico Transboundary Agreement; Arctic Offshore Regulators Forum; Arctic Council Task Force on Oil Pollution Prevention; leadership of the International Regulators Forum; and several other bilateral agreements.
  - Branding and engagement campaign. Developed external marketing materials, conference materials/booth, recruiting advertisements, and created the Bureau Annual Report. Events included targeted stakeholder outreach at the annual Offshore Technology Conference (Houston) as well as numerous technical conferences around the world.
  - Congressional engagement. Devised congressional outreach strategy, prepared written and oral testimony for the Director, and ongoing regular briefings Members of Congress and staff.
  - Staff leadership. Filled divisional vacancies and created new positions based on needs assessment. Devised ways to bring on a range of diverse candidates for short- and long-term employment at the Bureau. Provided day to day supervision and mentoring to headquarters staff, as well as staff in the three regional offices.
  - International Regulators Forum Conference and Annual Meeting (2015). Led a year-long planning effort and served as event host for the week-long event attended by 250 international and domestic regulatory and industry participants, which was the largest international event the Bureau had hosted to date.
- Advised the Director and Department leadership on technical, policy, and other issues related to offshore energy development on the Outer Continental Shelf. Provided crisis management in the event of safety and/or environmental incidents on the Outer Continental Shelf. Provided geotechnical advice on enforcement proceedings following resolution of safety incidents.

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### *Senior Advisor to the Director 2012–2013*

- Served as lead Executive for special bureau projects following the split of the Minerals Management Service into three agencies, one of which was BSEE.
- Advised the Director on technical, policy, and other issues related to offshore energy development on the Outer Continental Shelf, with a focus on oil and gas resources.
- Key deliverables included:
  - Creation of the Ocean Energy Safety Institute, at the direction of former Secretary Ken Salazar, following the tragic events of the *Deepwater Horizon*.
  - Implementation of the Safety and Environmental Management Systems Rule.
  - Development of technical training curricula for engineers and inspectors.
- Served as an advisor to the Secretary of Interior and his staff on Bureau emergencies and emerging policy. Worked with other Federal Agencies to coordinate joint research and regulatory efforts. Served as an external liaison to stakeholders, including non-government organizations, industry, academia, impacted citizens, and Members of Congress and their staff.

### **SCIENCE IN THE PUBLIC INTEREST PROGRAM, GEORGETOWN UNIVERSITY, WASHINGTON, DC**

#### *Energy Scholar & Adjunct Faculty Member 2011–2017*

- Developed and taught science and policy coursework for cross-disciplinary academic programs focused on societally-relevant scientific issues and global challenges.
- Mentored and advised undergraduate and graduate students on applied science policy projects in partnership with government, private sector, and academia, and other international stakeholders.

### **U.S. SENATE COMMITTEE ON ENERGY AND NATURAL RESOURCES, WASHINGTON, DC**

#### *Senior Professional Staff 2007–2012*

- Developed energy legislation that was incorporated into Federal law: The Energy Independence and Security Act of 2007; energy tax legislation in 2008, appropriations for the American Recovery and Reinvestment Act of 2009; and the Helium Stewardship Act of 2013.
- Drafted and developed policy and legislation related to upstream oil and gas exploration and production, carbon capture and sequestration, geothermal energy, gas flaring reduction, petroleum research and development, mineral supply chain issues, coal exploration and production, natural hazards, and energy workforce development.
- Provided technical and geological support to the Chairman, Committee Members and Members' staffs.
- Performed oversight of the relevant federal agencies within the assigned issue portfolio.
- Organized and held Congressional hearings on related energy topics.
- Provided educational briefing seminars, hosted field trips for staff and Congressional delegates, and field hearings for Congressional Members and their staff on technical scientific issues.

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- Selected and mentored congressional science policy fellows in the Congress. Developed a science policy education program for public outreach to geoscience students, faculty, and industry professionals in conjunction with the American Geological Institute and members of the Congressional Research Service.
- Worked to engage public and private sector stakeholders in policy making with the Congress and served as a liaison between stakeholders, Congress, and the Administration through various energy policy working groups, including the International Energy Agency's carbon capture and sequestration regulators working group.
- Represented the Committee through numerous public speaking engagements (approximately one to two per month).

### **U.S. SENATE COMMITTEE ON ENERGY AND NATURAL RESOURCES, WASHINGTON, DC** *American Geological Institute Congressional Science Policy Fellow 2006–2007*

- Drafted and developed energy policy and legislation, including components of the Energy Independence and Security Act that was signed into law in 2007.
- Organized and delivered informational seminars and briefings for congressional staff on technical issues related to energy and natural resource policy.

### **EXXONMOBIL EXPLORATION AND DEVELOPMENT COMPANIES, HOUSTON, TX** *Senior Petrophysicist/Geoscientist 2004-2006*

- Provided technical expertise for exploration and development wells in Angola, Nigeria, and the Democratic Republic of Congo; conducted geologic reservoir evaluations using petrophysical analyses of well log data; core acquisition and description integrated with log data; well planning for high-temperature / high-pressure wells; geological operations.
- Served as a subject matter expert liaison to Exploration Company business units.
- Served as a formal mentor and educator to new hires in geoscience.

### *Generalist Geoscientist 2002–2004*

- Supported several integrated projects in basins in South Texas, Angola, Democratic Republic of Congo, Nigeria, and the Caspian Sea.
- Conducted integrated seismic facies interpretations, petrophysical evaluations, structural and stratigraphic interpretations, geophysical modeling using seismic and gravity data, well planning, field work, resource assessment and reserves calculations, and play assessment/uncertainty analysis.

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## KANSAS GEOLOGICAL SURVEY, LAWRENCE, KS

*Researcher 2001-2003*

- Worked on an integrated surficial and subsurface forensic geologic project involving remote sensing (spectral components analyses), rock physics, log analyses, field mapping, core description, and seismic data acquisition and interpretation.

## DEPARTMENT OF GEOLOGY, UNIVERSITY OF KANSAS, LAWRENCE, KS

*Teaching Assistant 1999-2002*

- Taught sedimentology, geomorphology, and physical geology laboratories.
- Assisted in lecturing for Historical Geology class. Organized and held geologic field trips.
- Developed teaching curriculum for lab-based geology courses.

*Lab Coordinator, Cosmogenic Nuclide Extraction Laboratory 2000-2001*

- Duties include physical sample processing, chemical extraction, supervising student staff, and performing administrative duties such as billing and ordering lab supplies.

## DEPARTMENT OF GEOLOGY, INDIANA UNIVERSITY (IUPUI), INDIANAPOLIS, IN

*Laboratory Technician, Soil Laboratory 1998-1999*

- Participated in field and laboratory work such as physical, chemical and x-ray analyses related to the following projects:
  - Paleosol Project was an NSF-funded project directed at characterizing the occurrence, genesis, and chemistry of paleosols in the midcontinent, particularly in Indiana.
  - Indiana State Museum Mastodon project, which determined the origin of polygonal fissures fillings and provided a late Quaternary geologic history for a locality in Warren County, Indiana.

*Teaching Assistant & Lecturer 1998-1999*

- Developed and taught physical geology and environmental geology laboratories/lectures.

***Previous leadership, supervisory, and teaching experience at a range of positions in Education and Music. Further details can be provided upon request.***

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## EDUCATION

M.S. Geology, Indiana University-Purdue University at Indianapolis, Indianapolis, IN

Thesis: *New models for loess deposition and soil development in southwestern Indiana.*

B.S. Geology, University of Northern Iowa, Cedar Falls, IA Undergraduate Thesis: *Degree of hornblende etching in moraine soils of the Wind River Range, Wyoming.*

B.A. Music, University of Northern Iowa, Cedar Falls, IA

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## PROFESSIONAL ACHIEVEMENTS

- Keystone Policy Center, elected Trustee – 2019
- Energy and Earth Resources Graduate Program Advisory Committee, University of Texas - 2019
- National Petroleum Council, appointed member – 2018 to present
- Alumni Advisory Board, University of Kansas – 2018 to present
- Clean Energy Manufacturing Analysis Center Advisory Committee member, National Renewable Energy Lab – 2017 to present
- Keystone Energy Board Member – 2017 to present
- Offshore Technology Conference, 2016 d5 steering committee member
- President of the United States Executive Leadership Workshop, January – June 2014
- International CCS Regulators' Network, International Energy Agency, US Congressional representative, 2008-2011
- American Geological Institute Congressional Science Policy Fellowship, 2006-2007
- President, Association for Women Geoscientists, 2003-2006
- Chair & Vice-Chair, Professional Women in the Geoscience Professions Ad Hoc Committee, American Association of Petroleum Geologists, 2007-2009

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## PROFESSIONAL MEMBERSHIPS

American Association for Petroleum Geologists | American Association for the Advancement of Science | Association for Women Geoscientists | Board Source | CESSE | Geological Society of America | SEPM | Sigma Gamma Epsilon (life member) | Society for Petroleum Engineers

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## PUBLICATIONS AND PRESENTATIONS

Anderson Book, A.K., 2016 to present, invited speaker to member society Executive Committees, member councils, and boards.

Anderson Book, A.K., 2019, Keystone Energy Board, Panel moderator and speaker on renewable energy technologies and their supply chains, Keystone, CO.

Anderson Book, A.K., 2019, Conference of Undergraduate Women in Physics, invited panelist/speaker, William & Mary University, Williamsburg, VA.

Anderson Book, A.K., 2018, AIPG Annual Meeting, Geoscience as the Lens to View Modern Society, invited speaker, Denver, CO.

Anderson Book, A.K., 2018, Natural Resources Symposium, In science we trust (or not): Implications for managing natural resource issues, George Washington Law School, Washington, DC.

Anderson Book, A.K., 2018, Resourcing Future Generations Conference, Plenary Session Moderator- Resources, Opportunities, and Constraints, Vancouver, BC.

Anderson Book, A.K., 2018, American Association of Petroleum Geologists Leadership Meeting, invited speaker on workforce, Houston, TX.

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- Anderson Book, A.K., 2016, Women's Global Leadership Conference, invited keynote, Houston, TX.
- Anderson Book, A.K., (executive publisher), 2016 to present, Earth Magazine.
- Anderson Book, A.K., (editor), 2016, Bureau of Safety and Environmental Enforcement, 2015 Annual Report, [www.bsee.gov](http://www.bsee.gov).
- Anderson Book, A.K., 2016, State Department Energy Training Seminar, U.S./Mexico Offshore Oil and Gas, invited educator, Washington, DC.
- Anderson Book, A.K., 2016, Improving Cooperation for a Sustainable Gulf of Mexico after the 2014 Mexican Energy Reforms, invited panelist, Galveston, TX.
- Anderson Book, A.K., 2016, Eisenhower Institute, Power Play Changing the Landscape of American Energy Policy, invited panelist, Gettysburg, PA.
- Anderson Book, A.K., 2015, Halliburton Cementing Leadership Conference, keynote speaker, Houston, TX.
- Anderson Book, A.K., 2015, Operational Excellence in Offshore Oil and Gas, invited speaker, Houston, TX.
- Anderson Book, A.K., 2015, 66th Annual Oil and Gas Law Conference – After *Deepwater Horizon*, the New Offshore Regulatory Regime, invited panelist, Houston, TX.
- Anderson Book, A.K. and Madden, Molly, 2015, Bureau of Safety and Environmental Enforcement, 2016-2019 Strategic Plan, [www.bsee.gov](http://www.bsee.gov).
- Anderson Book, A.K., (editor), 2015, Bureau of Safety and Environmental Enforcement, 2014 Annual Report, [www.bsee.gov](http://www.bsee.gov).
- Anderson, A.K., 2014, NAMEPA Annual Conference, invited speaker, Houston, TX.
- Anderson, A.K., 2014, IPAA, Mid-year Board Meeting, invited speaker, Houston, TX.
- Anderson, A.K., 2011, Women's Energy Resource Council, invited panelist/speaker on energy policy, Washington, DC.
- Anderson, A.K., 2008-2011, International CCS Regulators' Network invited annual speaker, International Energy Agency, Paris, France.
- Anderson, A.K., 2008-2011, Annual Geothermal Energy Association Meeting, annual invited speaker on energy policy, Washington, DC.
- Anderson, A.K., 2007, Bringing science to the Hill; AAPG Explorer.
- Anderson, A.K., 2007, Fire and ice over Capitol Hill; Geotimes.
- Anderson, A.K., 2007, Lawmaking 101, Geotimes.
- Anderson, A.K., 2006 – 2011, American Association of Petroleum Geologists, invited panelist/speaker on energy policy, the role of women in industry, and leadership, annual and regional meetings.
- Anderson, A.K., 2006, World Oil Annual Women's Leadership Conference, invited speaker and Panelist on the role of women in energy, Houston, TX.
- Anderson, A.K., 2006, A winding path to the energy Hill; Geotimes.
- Anderson, A.K., 2005, AWG – Advancing Women in the Geosciences, invited Topical Speaker, Geological Society of America Annual Meeting, Salt Lake City, UT.
- Anderson, A.K., 2005, Thin bed analysis using Nuclear Magnetic Resonance (NMR) & Volumetric Laminated Sand Analysis (VLSA), SPWLA Topical Conference, Taos, NM.
- Anderson, A.K., and Scheuing, L., 2005, AWG; Advancing Women in the Geosciences;

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- Geological Society of America, Annual Meeting, v. 37, no. 7.
- Anderson, A.K. and Egbert, S., 2002, Hyperspectral remote sensing of brine seepage following catastrophic release of brine and methane from the subsurface in Hutchinson, Kansas; Geological Society of America, Annual Meeting, v. 34, no. 6, p. 551.
- Anderson, A.K. and Egbert, S., 2002, Hyperspectral remote sensing of hydrocarbon and brine seepage in Hutchinson, Kansas; ASPRS annual meeting proceedings volume.
- Hall, R.D., Hernly, V., and Anderson, A.K., 2002, Determining changes in parent material in paleosol profiles; *Geomorphology*.
- Hall, R.D., and Anderson, A.K., 2001, Quaternary Record at Cagles Mill, Putnam County, Indiana: *Proceedings of the Indiana Academy of Science*, v. 110, no 1-4, p. 9-22.
- Anderson, A.K., 2001, Physical properties of minerals; *in* Csoma, A.E., and Hall, J., *Laboratory Manual for G-Hawks*; Department of Geology, University of Kansas, Lab 4.
- Anderson, A.K., 2001, Introduction to maps; *in* Csoma, A.E., and Hall, J., *Laboratory Manual for G-Hawks*; Department of Geology, University of Kansas, Lab 1.
- Anderson, A.K., 2001, Rivers; *in* Csoma, A.E., and Hall, J., *Laboratory Manual for G-Hawks*; Department of Geology, University of Kansas, Lab 21.
- Hall, R.D. and Anderson, A.K., 2000, Quaternary Paleosols of the Central United States: *Palaeogeography, Palaeoclimatology, and Palaeoecology*, v. 158, pp. 109-145.
- Hall, R.D., Zbieszkowski, D.J., Morris, M., Hall, F., Anderson, A.K., Dagan, M., and Hernly, V., 2000, Glacial and Nonglacial Quaternary stratigraphy of eastern Indiana and western Ohio: *Indiana University-Purdue University, Indianapolis, IN*, 142 p.
- Anderson, A.K., 1999, *Loess-deposition and soil-development models for southwestern Indiana*, invited Colloquium Speaker, Department of Earth Science, University of Northern Iowa.
- Hall, R.D. and Anderson, A.K., 1999, Origin of polygonal fissure fillings and the late Quaternary history at the Schafer Mastodont Locality, Warren County, Indiana; *State Museum Report*.

### **Abstracts - published**

- Anderson, A.K. and Mandler, Ben, 2018, Geoscience at the Core of Sustainable Energy Solutions, American Geophysical Union, annual meeting proceedings volume.
- Anderson, A.K. and Scheuing, L., 2005, AWG; Advancing Women in the Geosciences; Geological Society of America, Annual Meeting, v. 37, no. 7.
- Watney, W.L., Byrnes, A.P., Bhattacharya, S., Nissen, S.E., and Anderson, A.K., 2003, Natural gas explosions in Hutchinson, Kansas; geologic factors; Geological Society of America, North-Central Section, 37th annual meeting, v. 35, no. 2, p. 4.
- Anderson, A.K. and Egbert, S., 2002, Hyperspectral remote sensing of brine seepage following catastrophic release of brine and methane from the subsurface in Hutchinson, Kansas; Geological Society of America, Annual Meeting, v. 34, no. 6, p. 551.
- Anderson, A.K. and Egbert, S., 2002, Hyperspectral remote sensing of hydrocarbon and brine seepage in Hutchinson, Kansas; ASPRS annual meeting proceedings volume.
- Hall, R.D. and Anderson, A.K., 2001, Quaternary Record at Cagles Mill, Putnam County, Indiana: *Proceedings of the Indiana Academy of Science*, v. 110, no 1-4, p. 9-22.
- Anderson, A.K., 2000, Is my silt your sand, and should I care; Geological Society of America



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- 34th Annual meeting North-Central Section, Abstracts with Programs, v.32, no. 4, p. A-2.
- Anderson, A.K., Hall, R.D., and Wilson, J., 1999, Improved models for loess deposition and soil development in southwestern Indiana; Indiana Academy of Science 115th Annual Meeting Programs and Abstracts, p. 61.
- Hall, R.D. and Anderson, A.K., 1999, Quaternary paleosols of Indiana and adjacent states, USA; Geological Society of America Annual Meeting Abstracts with Programs, v. 31, no. 7, p. A-53.
- Anderson, A.K. and Hall, R.D., 1999, Improved models for loess deposition and soil development in southwestern Indiana; Geological Society of America Annual Meeting Abstracts with Programs, v. 31, no. 7, p. A-232.
- Anderson, A.K., Hall, R.D., and Wilson, J., 1999, New loess-deposition and soil-development models for midcontinental USA; *in* Derbyshire, E. (ed)., *Loess: Characterization, Stratigraphy, Climate and Societal Significance*, Extended Abstracts, pp. 5-7.
- Anderson, A.K. and Hall, R.D., 1999, New loess-deposition and soil-development models for southwestern Indiana; Geological Society of America 33rd Annual meeting North-Central Section, Abstracts with Programs, v. 31, no. 5, p. A-1.
- Hall, R.D., Anderson, A.K., and Zbieszowski, K.F., 1998, Quaternary record at Cagles Mill, Putnam County, Indiana; Indiana Academy of Science, 114th Annual Meeting Programs and Abstracts, p. 81.
- Anderson, A.K., Dahms, D.E., and Walters, J., 1997, Degree of hornblende etching in moraine soils of the Wind River Range, Wyoming; Iowa Academy of Science 109th Annual Meeting Programs and Abstracts.