

CURRICULUM VITAE

Bradley B. Sageman

Professor and Department Chair
Department of Earth and Planetary Sciences
Northwestern University

RESEARCH INTERESTS

Stratigraphy – sequence stratigraphy, cyclostratigraphy, chemostratigraphy
Molluscan paleoecology
Sedimentary geochemistry/biogeochemistry
Paleoclimatology/paleoceanography
Energy and Sustainability

EDUCATION

Ph.D. Department of Geological Sciences,
1985-1991 University of Colorado, Boulder, CO

Dissertation : Stratigraphy, carbon geochemistry, and paleobiology of the Upper Cenomanian Hartland Shale Member, Greenhorn Formation, Western Interior, U.S., 572 p.

B.Sc. Department of Biology
1975 - 1979 Denison University, Granville, OH

PRE-DOCTORAL AWARDS, HONORS AND FELLOWSHIPS

1987-1988 Fulbright Scholarship, Institut für Geologie und Paläontologie,
Universität Tübingen, Germany

POST-DOCTORAL AWARDS, HONORS AND FELLOWSHIPS

2016 Associated Student Government, Faculty Honor Roll
2006 Elected Fellow, Geological Society of America
2004 Hewlett Award for Curricular Development: *Incorporation of HyperInteractive Teaching Technology in Undergraduate Teaching*
2001 Outstanding Paper of the Year, *Journal of Sedimentary Research*
1997 -2000 DuPont Young Professor Award
1997 Associated Student Government, Faculty Honor Roll
1996 Associated Student Government, Faculty Honor Roll
1994 Hewlett Award for Curricular Development:
Field Problems in Sedimentary Geology

EMPLOYMENT

Co-Director	(2013 -)	Institute for Sustainability & Energy at Northwestern
Associate Director	(2010-13)	Initiative for Sustainability & Energy at Northwestern
Department Chair	(2005 -)	Department of Earth & Planetary Sciences
Professor	(2004 -)	Northwestern University
Associate Professor	(1998-04)	Evanston, IL
Assistant Professor	(1992-98)	
Research Associate	(1991-92)	Department of Geosciences Penn State University University Park, PA

TEACHING AND ADVISING

Areas of teaching:

Introductory Physical Geology	(majors)
Stratigraphy and Sedimentology	(majors/grad students)
Field Methods in Stratigraphy	(majors/grad students)
Paleobiology/Evolutionary Theory	(non-majors; majors/grad students)
Sedimentary Geochemistry	(majors/grad students)
Energy, climate and sustainability	(majors and non-majors)

Courses taught:

EARTH 101 - *Geological Processes and Products*
 EARTH 114 – *Evolution and the Scientific Method*
 EARTH 201 – *Surface Processes*
 EARTH 203 - *Historical Geology*
 EARTH 330 - *Sedimentary Geology*
 EARTH 331 - *Field Problems in Sedimentary Geology*
 EARTH 340 – *Paleobiology*
 EARTH 342 - *Topics in Contemporary Energy and Climate Change*
 SCS 391 - *Domination of the American Southwest*
 EARTH 450 - *Advanced Topics in Sedimentary Geology:*
 Carbon cycle and pCO₂ Reconstructions
 Advanced Quantitative Stratigraphy
 ISEN 130/230 - *Climate Change & Sustainability: Political, Economic & Ethical Dimensions*
 SCS 370 – *Environmental Field School*

Advising History:

Selected undergraduate research advisees:	who are currently...
S15-S16: T. Kukla	Ph.D. candidate, Stanford U.
W11-S13: J. Mills	Ph.D. candidate, UC-Berkeley
W11-S13: A. Mayer	Ph.D. candidate, UC-Berkeley
F12- S13: R. Saywitz	private sector employment
W07-S08: C. Carney	private sector employment
S06-F06: B. Chartoff	H.S. teacher
S98-05: A. Blecha	completed Ph.D. at Stanford
F02-S04: P. Dejtrakulwong	completed Ph.D. at Stanford
F99-S02: M. Williams	completed M.S. at Ohio State U.
F01-S02: P. Pancoskova	completed M.S. at Northwestern
S97-F97: T. Huynh	completed M.S. at USC
F96: C. Albrecht-Buehler	completed M.S. at Northwestern
F93-S95: B. Van Mooy	research scientist USGS/WHOI-MIT
F97: K. Carrigan	practicing physician

Graduate research advisees (or co-advisees, with lead advisor in paren.s):

F15 – : Jiuyuan Wang (PhD.)	currently enrolled
F13 – : John Lazarz (w/Jacobsen; Ph.D.)	currently enrolled

F12 – : Matthew Jones (Ph.D.)	currently enrolled
F10 – : Trevor Bollman (w/vdLee; Ph.D.)	currently enrolled
F13 – 16: Brian Kristall (w/Hurtgen)	completed Ph.D.; seeking post doc
F13 –14: Maya Gomes (w/Hurtgen)	completed Ph.D.; Asst. Prof., J. Hopkins U.
F13–14: Rosemary Bush (w/McInerney)	completed Ph.D.; NU, advisor/lecturer
F13–14: Allie Baczynski (w/McInerney)	completed Ph.D.; Penn State, post-doc
F06 – 13: Young Ji Joo (Ph.D.)	completed Ph.D.; U. Oklahoma, post-doc
F05 – 11: Derek Adams (w/Hurtgen)	completed Ph.D.; Exxon-Mobil Corp
F04 – 11: Rich Barclay (w/McElwain)	completed Ph.D.; post doc Smithsonian
F01 – 08: Jason Flaum (PhD.)	completed Ph.D.; Exxon-Mobil Corp.
F01 – 07: Joniell Borges (w/Huh)	completed Ph.D.; Chevron Corp.
F01 – 07: Robert Locklair (PhD.)	completed Ph.D.; Chevron Corp.
F02 – 04: Petra Pancoskova	completed M.S.; lab manager, NU
F02 – 03: Michael Fortwengler	completed M.S.; geologist-Shell Oil Co.
F01 – 03: Ramya Shivaraj	completed M.S.; secondary education
F97 – 03: Steve Meyers	completed Ph.D.; Assoc. Prof. U Wisc.
F98 – F99: Shana Pimley	completed M.S.; private sector
W94 – S00: Adam Murphy	completed Ph.D.; instructor U. Phoenix
F93 – S94: Lotte Hass	completed M.S., private sector
W96 – S00: Josef Werne (w/Hollander)	completed Ph.D., Professor, U Pittsburg
W96 – S00: M. Smith (w/Hollander)	completed Ph.D., private sector
F92 – F93: Jonathan Rich (w/Birchfield)	completed Ph.D., private sector
F93 – S97: C. Gong (w/Hollander)	completed Ph.D.; Exxon-Mobil Corp.

Pre and post-doctoral advisees:

- 2013-14: post-doc Dorothee Husson, Ph.D., University Pierre and Marie Curie (UPMC) working on carbon sequestration and carbon mineralization under high pressure (co-advised with colleagues, S. Jacobsen and C. Bina)
- 1999-03: pre-doc Jiri Laurin, Fulbright Scholar, Ph.D. candidate from Charles U., Czech Republic (I served as outside member of committee); currently research scientist, Czech Academy of Sciences
- 1997-99: post-doc C.A. Ver Straeten, PhD., Univ. of Rochester; supported by Northwestern Environmental Council; currently research scientist, New York State Geological Survey.

Departmental Advising: F97 – 03, Director of Undergraduate Studies

SERVICE

Northwestern University

Departmental and program offices

- F05-S18: Department Chair
 F00-S02: Seminar Director
 F98-S03: Director of Undergraduate Studies
 F98-S03: Chair - Departmental Honors Committee
 F01-S03: Chair, Faculty Search Committee
 F98-S99: Chair, Faculty Search Committee
 W93-S96: Co-director - Graduate Admissions Committee
 F92-F96: Chair - Krumbein Lecture Committee

Departmental and program committees

- F13-15: As chair I have served ex officio on faculty search committees, curriculum committees, outreach committees, and computing committees.
 F01-S07: Member – Departmental building/relocation committee
 W95-S05+W12-S13: Member - Faculty Search Committees

WCAS or University committee office or membership

- F13 -17 : Co-director, Institute for Sustainability and Energy
 S10-13: Associate Director, ISEN Education and Special Projects
 F09-S17: Chair, ISEN curriculum committee
 W13-17: Co-chair, Sustainability Council (w/ Prof. E. Masanet)
 W-S10 : Co-chair, Environmental Sciences Review Committee
 W14: Member, Faculty Senate Committee on Global Warming
 W09-S17: Member, Advisory board for Center for Interdisciplinary Exploration & Research in Astrophysics (CIERA)
 W-S11 : Search Committee Member, Science/Engineering sustainability position
 F09-S10: Member, Executive Committee, Northwestern Institute of Sustainable Practices
 F09-S10: Member, Physical Sciences and Engineering Advisory Board
 F03-S07: Member, Curricular Policies Committee
 F95-S06: Member - Environmental Sciences Program Committee
 F01-S02: Co-chair – Environmental Sciences Task Force
 F01-S02: Member – Board of College Scholars
 F00-S02: Member - Committee on Academic Standing
 S00-S01: Member - Ad hoc Committee for Promotion of Lecturer Faculty
 F99-S00: Member -Environmental Council Core Management Group
 S94: CAS Representative for Prospective Undergraduate Applicants Panel

Student relations

- F94-S07: Faculty Associate, Shepard Residential College; Hosted Shepard student dinner and attended various residential college events and outings.
 F94-F06: Departmental field trip leader (Colorado-Utah '94; Iowa '00; Wisconsin '01, Big Bend and Yellowstone NP's '06; Yucatan '10)

Peer Review Activities

- Books: SEPM Special Publications Columbia University Press
 GSA Special Publications Springer Verlag
- Journals: *American Journal of Science, Associate Editor* (Jan.1, 2015-2019)
Palaios (Associate Editor 96-03) *Nature* *Geology*
Paleoceanography *GSA Bulletin* *AAPG Bulletin*
Chemical Geology *Earth & Planetary Science Letters*
Journal for Sedimentary Research *Palaeogeog, Palaeoecol., & Palaeoclim.*
Canadian Journal of Earth Sciences

- Funding Agencies: National Science Foundation, Earth Sciences
 Sedimentary Geology & Paleontology (Panel Member)
 Low temperature geochemistry and geobiology
 American Chemical Society, Petroleum Research Fund
 Netherlands Organisation for Scientific Research
 National Geographic Society

Other Peer Review service:

- Geological Society of America: L.L. Sloss Award Committee, 2005-08
 National Research Council: *Understanding Earth's Deep Past: Lessons for our Climate Future*

Professional Affiliations

Member: American Geophysical Union (AGU)
Member: Geological Society of America (GSA)
Member: Geochemical Society (GS)
Member: Society for Sedimentary Geology (SEPM)
Member: International Association of Sedimentologists (IAS)

Professional Organizations

Voting Member, Cretaceous Subcommittee of International Commission on Stratigraphy

RESEARCH FUNDING

I have been the lead PI, or a co-PI on grant awards that total about \$3.8M in research funding; about \$1.9M of this has been awarded in direct support to my research program. The bulk of the funding has come from the National Science Foundation. Other funding sources include the American Chemical Society-Petroleum Research Fund, NASA, scientific societies such as the Geological Society of America, American Association of Petroleum Geologists, Colorado Scientific Society, Gulf Coast Association of Geologic Societies, Evolving Earth Foundation, and DOSECC, several oil companies (Mobil, Whiting, and Encana Inc.), and the Institute for Sustainability and Energy at Northwestern (ISEN). Most recently I contributed to an invited funding proposal by ISEN to a university trustee that resulted in a gift of \$5.5M for support of climate change and carbon science research at Northwestern; this award is not included in the numbers cited above. It will fund post doctoral scholars and graduate students working with faculty in our department, the Dept. of Chemistry, and the Institute for Policy Research.

Updated: November 2017