

Ben van der Pluijm – Curriculum Vitae



Personal:

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Ben van der Pluijm is BR Clark Professor of Geology and Professor of the Environment at the Univ of Michigan, and former Editor-in-Chief of AGU's transdisciplinary science journal Earth's Future. His research areas are Structural Geology, dealing with deformation of Earth's crust from microscope to mountain belt, and Hazards and Societal Resilience, dealing with planet-human interactions. Professional activities include learning technologies and lectures on geology, geohazards and resilience to global change.

Education:

- Univ of New Brunswick, Canada; Ph.D. Geology (Newfoundland Appalachians), 1984.
- Univs of Leiden and Utrecht, Netherlands; doktoraal (MSc), Structural Geology, 1981.
- Univ of Leiden, Netherlands; kandidaats (BSc), 1977.

Professional Experience:

- 09/09-present Bruce R. Clark Collegiate Professor of Geology, University of Michigan
- 09/08-present Consultant-Evaluator, Higher Learning Commission (NCA)
- 09/02-present Professor of the Environment, University of Michigan
- 12/13-12/19 Editor-in-Chief, *Earth's Future*, American Geophysical Union
- 05/00-05/15 Director, Global Change Program, University of Michigan
- 08/11-07/12 IGSS Program Director and Coordinator of Sustainability Portfolio ("SEES"), National Science Foundation (Washington, DC)
- 07/07-05/10 Senior Counselor to the Provost, University of Michigan
- 09/96-08/09 Professor of Geological Sciences, University of Michigan
- 09/99-08/04 Editor, *GEOLOGY*, Geological Society of America
- 09/91-08/96 Associate Professor of Geological Sciences, University of Michigan
- 07/85-08/91 Assistant Professor of Geological Sciences, University of Michigan
- 10/84-07/85 Visiting Researcher, Field Camp Faculty, University of Utrecht, Netherlands
- 04/81-09/84 Research, Teaching and Field Camp Assistant, University of New Brunswick, Canada
- 01/78-03/81 Teaching Assistant, Field Camp Assistant, Universities of Leiden and Utrecht, Netherlands

Professional Interests:

- Structural Geology and Tectonics; Resilience and Global Change.
Topical areas: fault zones; geofluids; crustal architecture; geochronology; isotope geochemistry; rock magnetism; geohazards.
- Interdisciplinary undergraduate teaching; professional-level geology teaching; outreach presentations on Geology and Resilience.

June 30, 2021

PROFESSIONAL ACTIVITIES

Committees/Boards

[Chikyu IODP Board](#) (JAMSTEC-CDEX, Japan) (15-18)
[DOSECC](#) (Drilling, Observation and Sampling of the Earth's Continental Crust) (89-17)
American Association for the Advancement of Science, AAAS Council (13-16)
[Alpine Fault drilling \(DFDP\)](#), Advisory Board (11-15)
Geological Society of America, Steven E Laubach Structural Diagenesis Research Award (11)
Geological Society of America, Committee on Penrose Conferences & Field Forums, Chair (09-11)
UNESCO/IUGS, Science Team ("Deep Earth"), [International Year of Planet Earth](#) (06-09)
National Science Foundation, Steering Committee on Integrated Solid Earth Sciences (02-04)
Geological Society of America, campus representative (86-02)
American Geophysical Union, Tectonophysics Section Executive Committee (00)
Geological Society of America, Committee on External Awards (95)
Geological Society of America Annual Meeting (92), abstract reviewer (Structural Geology)

Scientific Panels

Geological Society of America, Research Grants Committee (17-20)
National Science Foundation, OCE-IODP Panel (18)
National Science Foundation, PIRE site visit (18)
National Science Foundation, EHR-Informal Science Education (ISE) Panel (10-11)
International Ocean Drilling Program (IODP), Science Planning Committee (07-11)
National Science Foundation, EAR-Earthscope panel (09)
National Science Foundation, EAR-Tectonics Panel (04-06)
National Science Foundation, GEO-Undergraduate Education (CCLI) Panel (05)
American Institute of Biological Sciences, Proposal Panel (99)
National Science Foundation, EAR-Postdoctoral Fellowship Panel (96)
Geological Society of America, Committee on Research Grants (92-94)

Editorial

[Earth's Future](#), Editor-in-Chief (13-19)
[Geological Magazine](#), Editorial Board (13-17)
[Journal of Structural Geology](#), Editorial Advisory Board (98-15)
[Geologica Acta](#), Advisory Scientific Board (02-16)
[The Virtual Explorer](#) (electronic journal), Editorial Board (01-11)
Geological Society of America, Publications Committee (99-09)
[Geological Society of America Bulletin](#), Associate Editor (05-08)
[GeoScienceWorld](#), Journal Review Committee (06-08)
[Tectonophysics](#), Editorial Board (92-06)
[GEOLOGY](#), Editor (99-04)
Geoscience Editors Summit, Tulsa OK, co-convener (02)
[Precambrian Research](#), Associate Editor (90-99)
Geological Society of America, Structural Geology & Tectonics Division, Webmaster (96-99)
[GEOLOGY](#), Editorial Board (91-93)

Workshops/Meetings Organizer

Four-dimensional evolution of the conterminous US (Earthscope workshop), Denver, co-convener (13)
NCSE's National Conference on Science, Policy and the Environment, [Environmental Disasters](#), DC, Organizing Committee (12-13)
National Academies, DC, [Sustainability Symposium](#) (11-12)
[EarthScope 3rd National Meeting](#), Austin, Organizing Committee (10-11)
[2010 Structural Geology and Tectonics Forum, Madison](#) (10)
[NSF, Western GeoSwath workshop, Boise](#) (07)
[EarthScope 1st National Meeting](#), Monterey, Program Committee (06-07)
[NSF, MARGINS/GeoSwath workshop, Monterey](#) (07)
NSF/EarthScope workshop, "GeoFrame: Toward a geologic framework for EarthScope's USArray", Missouri, (06)
[NSF/EarthScope workshop, "GeoTraverse"](#), New Mexico, co-convener (05)
NSF workshop, "Integrated Solid Earth Sciences, Forum II", San Francisco, co-convener (04)
NSF/EarthScope workshop, "SAFOD: 2004 sample analysis workshop", Paso Robles, co-convener (04)

NSF workshop, "Integrated Solid Earth Sciences, Forum I", Seattle, co-convener (03)
[NSF workshop, "Priorities in Solid Earth sciences"](#), Denver, co-convener (02)
Conference, "Paleomagnetism and the Rock Record (Voo2K)", Ann Arbor, co-convener (00)
Geological Society of America, Iapetus symposium, co-convener (97)
GSA Penrose Conference "Tectonics of Continental Interiors" co-convener (97)
Geological Society of America 1994 Annual Meeting, convener Special Session (Precambrian Geology)
AAPG Hedberg Conference "Basement and Basins of Eastern North America", Ann Arbor, co-convener (93)
6th NE Paleomagnetic and Rock Magnetic Workshop, Ann Arbor, Organizing Committee (92)

Review/Assessment Activities

Institutional Review (HLC), Univ Arkansas (21)
Institutional Review (HLC), Univ Minnesota, Twin Cities (20)
Institutional Review (HLC), Univ Missouri-Columbia (19)
Institutional Review (HLC), Univ Iowa (19)
Institutional Review (HLC), Ohio State Univ (17)
Institutional Review (HLC), Northwestern Univ (15)
MS/PhD programs in Structural Geology and Remote Sensing, King Abdulaziz Univ, Saudi Arabia (15)
Institutional Review (HLC), Colorado State College (13)
GES review, Hope College (13)
Institutional Review (HLC), Arizona State Univ (13)
Institutional Review (HLC), Univ Colorado-Boulder (10)
Institutional Review (HLC), Univ Illinois-U/C (09)
Institutional Review (HLC), Univ Wisconsin, Madison (09)
Higher Learning Commission (NCA), [Peer Review Corps](#) (08-15):
Earth Sciences Quality Assurance visitation committee ([QANU](#)), Netherlands; Univs of Utrecht, Delft, Amsterdam (GU, VU), Wageningen (05-06)
Reviewer of grant proposals, journal manuscripts, books
National and international Dissertation, Promotion and Award dossiers

UNIVERSITY ACTIVITIES

Faculty Advisor, [Epsilon Eta](#) (15-)
UMOR panel (2021)
Alumni Travel faculty host, Patagonia (19)
Alumni Travel faculty host, S Alaska (17)
Alumni Travel faculty host, Norway and N. Russia (15)
Academic advisor, [Global Change](#) (00-15)
Alumni Travel faculty host, Iceland and Greenland (13)
Alumni Travel faculty host, Peru and Ecuador (12)
Provost's Budget Advisory Committee (10-11)
Alumni Travel faculty host, Antarctic Peninsula (11)
[2010 University Accreditation](#), Lead (07-10)
President's [Multidisciplinary Learning and Team Teaching Steering Committee](#), Chair (05-09)
Faculty Response to DoE's [Spellings report](#), Chair (06-07)
[Academic Affairs \(Provost's\) Advisory Committee](#) (04-07)
Advisory Committee of LSA/NRE Program in the Environment (02-05)
[Enriching Scholarship](#) 2006, keynote and workshop (06)
Steering Committee on Environmental Issues and Research (00-03)
College Curriculum Committee (02-03)
Curriculum Implementation Committee LSA/NRE Environmental Major (00-01)
Environmental Major Curriculum Development Committee (2000)
Global Change curriculum/minor workshop (99)
Research Scientist Awards Committee (99)
Research Policies Committee (97-99, 98-99 Chair)
Vice President for Research Search Advisory Committee, Chair (98)
College, Matthews Teaching Award (97)
University Library Council (96-99)
Provost's "Distance Learning Task Force" (98-99)
College, Curriculum Committee (95-98)

Director of University Library Search Advisory Committee (96-97)
Senate Assembly Tenure Committee (93-96)
College, Library Review Committee (96)
Virtual Geoscience Library Group (94-95)
College, Library Committee, Chair (89-92)
Electronic Information Resources Committee (90-91)
Rackham Graduate School, Dissertation/Thesis Grants (87-88)
Univ Utrecht, College Executive Committee, student representative (78-81)

DEPARTMENT ACTIVITIES

Undergraduate Advisor (10-11, 18-)
Graduate Exam, standing committee (14-18)
Turner proposals panel (14-17)
Geology&Geophysics search committee (15-16)
Graduate Admissions (13-14)
Undergraduate Chair (10-11)
Earth Systems Science search committee (06-07)
Computer Committee (05-07)
Graduate recruiting and support, Chair (03-04)
Executive Committee (02-03)
Atmospheric Change search committee, Chair (02-03)
Long-Range Planning Committee, Chair (00-01)
Landform Evolution search committee, Chair (99-00)
Graduate Student Support/Appointments (96-99)
Space Committee (94-95)
Internal Review Committee (94-95)
Geodynamics/Tectonophysics Search Committee, Chair (93-94)
Ph.D. Examination Committee, Chair (94)
Library Liaison (91-92)
Editor, *Geoscience News* (1992)
Technology Committee (91-92; 94-96)
Curriculum Committee (88-89, 91-92)
Illustrative Services Coordinator (91-98)
Scott Turner Committee on Research Grants (94-96)
Executive Committee (89-91)
Turner Lecture Series (88-89)
Sedimentology Search Committee (85-88)

HONORS, AWARDS, RECOGNITION

Earthscope, US National Speaker Program; "Smart Clays" (13-14)
NSF, Director's Award for Collaborative Integration (12)
U-M, University Award for Service and Leadership (10)
CIC's Academic Leadership Program, Fellow (09-10)
U-M, Bruce R. Clark Collegiate Professorship (09)
American Association for the Advancement of Science, Fellow (06)
Geological Society of America, Distinguished Service Award (05)
U-M, Outstanding Faculty Member Award (99)
U-M, LSA Excellence in Research Award (99) (97)
U-M, LSA Excellence in Education Award (93) (92)
U-M, Geo-Alumni Research and Teaching Award (93)
Geological Society of America, Fellow (92)
Geological Association of Canada, Fellow (87)
U-M, CRLT-LSA Teaching Award (86)
Annual editions of Who's Who (in America; in Science and Engineering; in American Education)

JOURNAL PUBLICATIONS

2020

- Boles, A, van der Pluijm, B, 2020. Locally derived, meteoric fluid infiltration was responsible for widespread Late Paleozoic illite authigenesis in the Appalachian Basin. *Tectonics*, **39**. doi.org/10.1029/2020TC006137
- Lecocq, T et al., 2020. Global quieting of high frequency seismic noise due to COVID-19 pandemic lockdown measures. *Science*. DOI: [10.1126/science.abd2438](https://doi.org/10.1126/science.abd2438)
- Marshak, S, van der Pluijm, B., 2020 Phanerozoic tectonics of the US Continental Interior. In: Encyclopedia of Geology, 2ed. Academic Press.
- Scotese, CR, van der Pluijm, BA, 2020. Deconstructing Tectonics: Ten animated explorations. *Earth and Space Sci*, **7**. doi.org/10.1029/2019EA000989 (open-access)
- van der Pluijm, B, 2020. All together now: Reflecting on Earth's Future's formative years. *Eos*, **101**. doi.org/10.1029/2020EO140395 (open-access)

In submission/press

- Haines, van der Pluijm. From fault dates to orogenic rates. *J Struct Geol*.
- Haines, van der Pluijm. Timing of the frontal Pyrenean orogenic wedge at Ter Freser. Spain. *J Struct Geol*.
- Lynch, van der Pluijm, Pană, Venneman, Geofluids in orogenic faults: Insights from isotopic studies of clay-rich fault rock in the Alberta Rocky Mountains. *G3*.

2019

- Anenberg, SC, Dutton, A, Goulet, C, Swain, DL, van der Pluijm, B, 2019. Toward a resilient global society: Air, Sea Level, Earthquakes, and Weather. *Earth's Future*, **7**. doi.org/10.1029/2019EF001242 (open-access) (212)
- Fitz-Diaz, E, Cottle, J, Vidal-Reyes, MI, van der Pluijm, B, 2019. In situ Th/Pb dating of monazite in fibrous veins: Direct dating of veins and deformation in the shallow upper crust of the Mexican Orogen. *J Struct Geol*, **124**, 136-142. doi 10.1016/j.jsg.2019.04.004 (211)
- Little, TA, SM Webber, M Mizera, C Boulton, J Oesterle, S Ellis, A Boles, B van der Pluijm, K Norton, D Seward, J Biemiller, L Wallace, 2019. Evolution of a rapidly slipping, active low-angle normal fault, Suckling-Dayman metamorphic core complex, SE Papua New Guinea. *Geol Soc Am Bull*, **131**, 1333-1363. doi 10.1130/B35051.1 (210)
- Lynch, E, Yonkee, A, Munch, A, van der Pluijm, B, 2019. Surface fluids in the evolving Sevier fold-thrust belt of ID-WY indicated by hydrogen isotopes in dated, authigenic clay minerals. *Earth Planet Sci Lett*, **513**, 29-39. doi.org/10.1016/j.epsl.2019.02.003 (209)
- Nemkin, SR, Chavez-Cabello, G, Fitz-Diaz, E, van der Pluijm, B, Van der Voo, R., 2019. Concurrence of folding and remagnetization events in the Monterrey Salient (NE Mexico). *Tectonophysics*, **760**, 58-68. doi 10.1016/j.tecto.2017.12.002 (208)
- Williams, Q, van der Pluijm, B, 2019. The Long and Winding Road: Making Resilience Real. *Eos/AGU* **100**. doi.org/10.1029/ (open-access) (207)

2018

- AghaKouchak, A, van der Pluijm, B, 2018. We can work it out: Avoiding disasters, *Eos* **99**, doi.org/10.1029/2018EO105299 (open-access) (206)
- Boles, A, Mulch, A, van der Pluijm, B, 2018. Near-surface clay authigenesis in exhumed fault rock of the Alpine Fault Zone (New Zealand); O-H-Ar isotopic, XRD and chemical analysis of illite and chlorite. *J Struct Geol*, **111**, 27-41. doi 10.1016/j.jsg.2018.03.008 (205)
- Boles, A, Schleicher, AM, Solum, J, van der Pluijm, B, 2018 Quantitative X-ray powder diffraction and the illite polytype analysis method: A comparison of analytical techniques. *Clays Clay Miner*, **66**, 220-232. doi 10.1346/CCMN.2018.064093 (204)

2017

- Abad, I, Jiménez-Millán, J, Schleicher, A, van der Pluijm, B, 2017. Mineral characterization, clay quantification and Ar-Ar dating of faulted schists in the Carboneras and Palomares Faults (Betic Cordillera, SE Spain). *Eur J Min*, **29**, 17-34. doi 10.1127/ejm/2017/0029-2580. (203)
- Hagen, S, van der Pluijm, B, 2017. Water World: Sea Level Rise, Coastal Floods and Storm Surges. *Eos/AGU* **98**. <https://doi.org/10.1029/2018EO082127> (open-access) (202)
- Lynch, E, van der Pluijm, B, 2017. Meteoric fluid infiltration in the Argentine Precordillera fold-thrust belt: evidence from H isotopic studies of neoformed clay minerals. *Lithosphere*, **9**, 134-145. doi:10.1130/L568.1 (201)
- van der Pluijm, B, Bresseur, G, 2017. Good Night Sunshine: Geoengineering Solutions to Climate Change? *Eos/AGU* **98**. doi.org/10.1029/2018EO066847 (open-access) (200)

Warr, LN, Hoffmann H, van der Pluijm, BA, 2017. Constraining the alteration history of a Late Cretaceous Patagonian volcanoclastic bentonite-ash-mudstone sequence using K/Ar and $^{40}\text{Ar}/^{39}\text{Ar}$ isotopes. [*Int J Earth Sci*, 106, 255-268](#). doi 10.1007/s00531-016-1315-2 (199)

2016

Andras, P, Aplin, AC, Goult, NR, Sargent, C, Derkowski, A, van der Pluijm, BA, 2016. Clay mineral transformations and associated compaction of siliciclastic mudstones. 5th EAGE Shale Workshop: Quantifying Risks and Potential; Catania, Italy, 37-41. doi 10.3997/2214-4609.201600396. (198)

Fitz-Diaz, E, Hall, CM, van der Pluijm, BA, 2016. XRD-based $^{40}\text{Ar}/^{39}\text{Ar}$ age correction for fine-grained illite, with application to folded carbonates in the Monterrey Salient (northern Mexico). [*Geochim Cosmochim Acta*, 181, 201-216](#). doi 10.1016/j.gca.2016.02.004 (197)

Haines, S, Lynch, E, Mulch, A, Valley, J, van der Pluijm, B, 2016. Meteoric fluid infiltration in crustal-scale normal fault systems as indicated by $\delta^{18}\text{O}$ and $\delta^2\text{H}$ geochemistry, and Ar dating of neofomed clays in brittle fault rocks. [*Lithosphere*, 8, 587-600](#). doi 10.1130/L483.1 (196)

Nemkin, S, Lageson, D, van der Pluijm, B, Van der Voo, R, 2016. Remagnetization and folding in the frontal Montana Rocky Mountains. [*Lithosphere*, 8, 716-728](#). doi:10.1130/L579.1 (195)

Rea, D, Moore, T, Hassold, N, van der Pluijm, B, 2016. Do Magnetic Fabrics of Marine Deposits Preserve Orbital Forcing? A Test Case in the Southern Ocean, Antarctic Peninsula. [*Lithosphere*, 8, 751-756](#). doi:10.1130/L566.1 (194)

van der Pluijm, B, 2016. Here comes the Anthropocene. *Eos/AGU* 97, <https://doi.org/10.1029/2018EO058059>. (open-access) (193)

2015

Boles, A, van der Pluijm, B, Mulch, A, Mutlu, H, Uysal, I, Warr, L, 2015. Hydrogen and $^{40}\text{Ar}/^{39}\text{Ar}$ isotope evidence for multiple and protracted paleofluid flow events within the long-lived North Anatolian Keirogen (Turkey). [*G-cubed*, 16](#). doi 10.1002/2015GC005810 (192)

Nemkin, SR, Fitz-Díaz, E, van der Pluijm, B, Van der Voo, R, 2015. Dating synfolding remagnetization: Approach and field application (central Sierra Madre Oriental, Mexico). [*Geosphere*, 11, 1617-1628](#). doi 10.1130/GES01187.1 (191)

Pana, DI, van der Pluijm, BA, 2015. Orogenic pulses in the Alberta Rocky Mountains: Radiometric dating of fault gouge from major thrusts and comparison with the regional tectono-stratigraphic record. [*Geol Soc Amer Bull*, 127, 480-502](#). doi 10.1130/B31069.1 (190)

Schleicher, AM, Boles, A, van der Pluijm, B, 2015. Response of natural smectite to seismogenic heating and implications for the 2011 Tohoku earthquake in the Japan Trench. [*Geology*, 43, 755-758](#). doi 10.1130/G36846.1 (189)

Schleicher, AM, Sutherland, R, Townend, J, Toy, VG, van der Pluijm, BA, 2015. Clay mineral formation and fabric development in the DFDP-1B borehole, central Alpine Fault, New Zealand. [*New Zeal J Geol Geophys*, 59, 13-21](#). doi 10.1080/00288306.2014.979841 (188)

van der Pluijm, B, Hall, C, 2015. Fault Zone - Thermochronology. JW Rink, JW Thompson (eds.), [*Encyclopedia of Scientific Dating Methods*](#). Springer, Dordrecht. doi 10.1007/978-94-007-6304-3 (187)

2014

Fitz-Díaz, E, Camprubí, A, Cienfuegos-Alvarado, E, Morales-Puente, P, Schleicher, AM, van der Pluijm, B, 2014a. Newly-formed illite preserves fluid sources during folding of shale and limestone rocks; an example from the Mexican Fold-Thrust Belt. [*Earth Planet Sci Lett*, 391, 263-273](#). (186)

Fitz-Diaz, E, Hudleston, P, Tolson, G, van der Pluijm, B, 2014b. Progressive, episodic deformation in the Mexican fold-thrust belt (central Mexico): Evidence from isotopic dating of folds and faults. [*Int Geol Review*, 56, 734-755](#). (185)

Hnat, JS, van der Pluijm, BA, 2014. Fault gouge dating in the Southern Appalachians, U.S.A. [*Geol Soc Amer Bull*, 126, 639-651](#). (184)

Parés, JM, van der Pluijm, BA, 2014 Low-temperature AMS and the quantification of subfabrics in deformed rocks. [*Tectonophysics*, 629, 55-62](#). (183)

van der Pluijm, B, 2014. Hello Anthropocene, Goodbye Holocene. [*Earth's Future*, 2](#). doi 10.1002/2014EF000268 (182)

Warr, LN, Wojatschke, J, Carpenter, BM, Marone, C, Schleicher, AM, van der Pluijm, BA, 2014. A "slice-and-view" (FIB-SEM) study of clay gouge from the SAFOD creeping section of the San Andreas Fault at ~2.7 km depth. [*J Struct Geol*, 69, 234-244](#). (181)

2013

Day-Stirrat, RJ, Flemings, PB, Yao You, van der Pluijm, BA, 2013. Modification of mudstone fabric and pore structure as a result of slope failure: Ursa Basin, Gulf of Mexico. [*Mar Geol*, 341, 58-67](#). (180)

Fitz-Diaz, E, van der Pluijm B, 2013. Fold dating: A new Ar/Ar illite dating application to constrain the age of deformation in shallow crustal rocks. [*J Struct Geol*, 54, 174-179](#). (179)

- Haines, S, Kaproth, B, Marone, C, Saffer, D, van der Pluijm, B, 2013. Shear zones in clay-rich fault gouge: A laboratory study of fabric development and evolution. *J Struct Geol*, **51**, 205-225. (178)
- Schleicher, AM, Hofmann, H, van der Pluijm, BA, 2013. Constraining clay hydration state and its role in active fault systems. *G-cubed*, **14**, 1039-1052. (177)
- Schleicher, AM, van der Pluijm, BA, Warr, LN, 2013. Chlorite-smectite clay minerals and fault behavior: Evidence from the San Andreas Fault Observatory at Depth (SAFOD). *InSights, Winter 2013*. (176)
- 2012
- Day-Stirrat, RJ, Flemings PB, Yao You, Aplin, AC, van der Pluijm, BA, 2012. The fabric of consolidation in Gulf of Mexico mudstones, *Mar Geol*, **295-298**, 77-85. (175)
- Haines, SH, van der Pluijm, BA, 2012. Patterns of mineral transformations in clay gouge, with examples from low-angle normal fault rocks in the western USA. *J Struct Geol*, **43**, 2-32. (174)
- Killeen, T, van der Pluijm, B, Cavanaugh, M, 2012. A Focus on Science, Engineering and Education for Sustainability. *Eos*, **93**, 1-3. (173)
- O'Brien, TM, van der Pluijm, BA, 2012. Timing of Iapetus Ocean rifting from Ar geochronology of pseudotachylytes in the St. Lawrence Rift System of southern Quebec. *Geology*, **40**, 443-446; doi 10.1130/G32691.1 (172)
- Schleicher, AM, van der Pluijm, BA, Warr, LN, 2012. Chlorite-smectite clay minerals and fault behavior: New evidence from SAFOD core. *Lithosphere*, **4**, 209-220. (171)
- Verdel, C, van der Pluijm, BA, Niemi, N, 2012. Variation of illite/muscovite $^{40}\text{Ar}/^{39}\text{Ar}$ age spectra during progressive low-grade metamorphism: An example from the US Cordillera. *Contrib Min Petrol* **164**, 521-536. (170)
- 2011
- Day-Stirrat, RJ, Schleicher, AM, Schneider, J, Flemings, PB, Germaine, JT, van der Pluijm, BA, 2011. Preferred orientation of phyllosilicates: composition and stress on resedimented mudstone microfabrics. *J Struct Geol*, **33**, 1347-1358. (169)
- Duvall, A, Clark, M, van der Pluijm, B, Li, C, 2011. Direct dating of Eocene reverse faulting in northeastern Tibet using Ar-dating of fault clays and low-temperature thermochronometry. *Earth Planet Sci Lett*, **304**, 520-526. (168)
- Hnat, J, van der Pluijm, BA, 2011. Foreland signature of indenter tectonics: Insights from calcite twinning analysis in the Tennessee salient of the Southern Appalachians, USA. *Lithosphere*, **3**, 317-327. (167)
- Rahl, JM, Haines, SH, van der Pluijm, BA, 2011. Links between orogenic wedge deformation and erosional exhumation: evidence from Illite age analysis of fault rock and detrital thermochronometry of syn-tectonic conglomerates in the Spanish Pyrenees. *EPSL*, **307**, 180-190. (166)
- van der Pluijm, B, 2011. Natural fault lubricants. *Nat Geosci*, **4**, 217-218. (165)
- Verdel, C, Niemi, N, van der Pluijm, BA, 2011. Thermochronology of the Salt Spring fault: Constraints on the evolution of the South Virgin-White Hills detachment system, Nevada and Arizona, USA. *Geosphere*, **7**, 774-784. (164)
- Verdel, C, Niemi, N, van der Pluijm, BA, 2011. Variations in the illite-muscovite transition related to metamorphic conditions and detrital muscovite content: Insight from the Paleozoic passive margin of the S.W. US. *J Geol*, **119**, 419-437. (163)
- 2010
- Barker, SLL, Palin, JM, Sibson, RH, Fitzgerald, JD, Reddy, S, Warr, LN, van der Pluijm, BA, 2010. Cretaceous age pseudotachylyte in the Otago Schist, New Zealand. *New Zeal J Geol Geophys*, **53**, 15-29. (162)
- Day-Stirrat, RJ, Dutton, S, Milliken, KL, Loucks, RG, Aplin, AC, Hillier, S, van der Pluijm, BA, 2010. Fabric anisotropy induced by primary depositional variations in the silt/clay ratio in two fine-grained slope fan complexes; Texas Gulf Coast and Northern North Sea. *Sedimen Geol*, **226**, 42-53. (161)
- Haines, SH, van der Pluijm, BA, 2010. Dating the detachment fault system of the Ruby Mountains, Nevada: Significance for the kinematics of low-angle normal faults. *Tectonics*, **29**, doi:10.1029/2009TC002552. (160)
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- Housen, BA, van der Pluijm, BA, Van der Voo, R, 1993. Magnetite dissolution and neocrystallization during cleavage formation: Paleomagnetic study of the Martinsburg Formation, Lehigh Gap, Pennsylvania. *J. Geoph. Res. (B)*, **98**, 13,799-13,813. (44)
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- Potts, SS, van der Pluijm, BA, Van der Voo, R, 1993. Paleomagnetism of the Ordovician Bluffer Pond Formation: Paleogeographic implications for the Munsungun terrane of northern Maine. *J. Geoph. Res. (B)*, **98**, 7987-7996. (48)
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- van der Pluijm, BA, Johnson, RJE, Van der Voo, R, 1993. Paleogeography, accretionary history and tectonic scenario: A working hypothesis for the Ordovician and Silurian evolution of the northern Appalachians. *Geol. Soc. Am. Spec. Paper*, **75**, 27-40. (50)
- van der Pluijm, BA, Van der Voo, R, Potts, SS, Stamatakis, J, 1993. Early Silurian paleolatitude for central Newfoundland from paleomagnetism of the Wigwam Formation: Discussion. *Can J Earth Sci*, **30**, 644-645. (51)
- 1992
- Mauk, JL, Kelly, WC, van der Pluijm, BA, Seacor, RW, 1992. Relations between deformation and sediment-hosted copper mineralization: Evidence from the White Pine part of the Midcontinent rift system. *Geology*, **20**, 427-430. (39)
- Mezger, K, van der Pluijm, BA, Essene, EJ, Halliday, AN, 1992. The Carthage-Colton mylonite zone (Adirondack Mountains, New York): The site of a cryptic suture in the Grenville Orogen? *J Geol*, **100**, 630-638. (40)
- Tuccillo, ME, Mezger, K, Essene, EJ, van der Pluijm, BA, 1992. Thermobarometry, geochronology, and the interpretation of P-T-t data in the Britt Domain, Ontario Grenville Province, Canada. *J Petrol*, **33**, 1225-1259. (41)
- 1991
- Housen, BA, van der Pluijm, BA, 1991. Slaty cleavage development and magnetic anisotropy fabrics. *J. Geoph. Res. (B)*, **96**, 9937-9946. (32)
- Johnson, RJE., van der Pluijm, BA, Van der Voo, R, 1991. Paleomagnetism of the Moreton's Harbour Group, northeastern Newfoundland Appalachians: evidence for an Early Ordovician island arc near the Laurentian margin of Iapetus. *J. Geoph. Res. (B)*, **96**, 11689-11702. (33)

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- Mezger, K, van der Pluijm, BA, Essene, EJ, Halliday, AN, 1991. Synorogenic collapse: a perspective from the middle crust, the Proterozoic Grenville orogen. [Science, 254, 695-698](#). (35)
- van der Pluijm, BA, 1991. Marble mylonites in the Bancroft shear zone, Ontario, Canada: microstructures and deformation mechanisms. [J. Struct. Geol., 13, 1125-1135](#). (36)
- Van der Voo, R, Johnson, RJE, van der Pluijm, BA, Knutson, LC, 1991. Paleogeography of some vestiges of Iapetus: paleomagnetism of the Ordovician Robert's Arm, Summerford and Chanceport Groups, central Newfoundland. [Geol. Soc. Am. Bull., 103, 1564-1575](#). (37)
- Wellensiek, MR, van der Pluijm, BA, Van der Voo, R, 1991. Reply to "Tectonic history of the Lunksoos composite terrane in the Maine Appalachians". [Tectonics, 10, 647-648](#). (38)
- 1990
- Carlson, KA, van der Pluijm, BA, Hanmer, S, 1990. Marble mylonites of the Bancroft Shear Zone: Evidence for extension in the Canadian Grenville. [Geol. Soc. Am. Bull., 102, 174-181](#). (23)
- Housen, BA, van der Pluijm, BA, 1990. Chlorite control of correlations between strain and anisotropy of magnetic susceptibility. [Phys. Earth Planet. Inter., 61, 315-323](#). (24)
- Howell, PD, van der Pluijm, BA, 1990. Early history of the Michigan Basin: subsidence and Appalachian tectonics. [Geology, 18, 1195-1198](#). (25)
- Kesler, SE, van der Pluijm, BA, 1990. Timing of Mississippi Valley-type mineralization: relation to Appalachian orogenic events. [Geology, 18, 1115-1118](#). (26)
- McWhinnie, ST, van der Pluijm, BA, Van der Voo, R, 1990. Remagnetizations and thrusting in the Idaho-Wyoming overthrust belt. [J. Geoph. Res. \(B\), 95, 4551-4559](#). (27)
- Tuccillo, ME, Essene, EJ, van der Pluijm, BA, 1990. Growth and retrograde zoning in garnets from high-grade metapelites: implications for P-T paths. [Geology, 18, 839-842](#). (28)
- van der Pluijm, BA, 1990. Synchronicity of folding and cleavage in transected folds of the Newfoundland Appalachians? [J. Struct. Geol., 12, 1073-1076](#). (29)
- van der Pluijm, BA, Johnson, RJE., Van der Voo, R, 1990. Early Paleozoic paleogeography and accretionary history of the Newfoundland Appalachians. [Geology, 18, 898-901](#). (30)
- Wellensiek, MR, van der Pluijm, BA, Van der Voo, R, Johnson, RJE, 1990. Tectonic history of the Lunksoos composite terrane in the Maine Appalachians. [Tectonics, 9, 719-734](#). (31)
- Pre-1990
- Craddock, JP, van der Pluijm, BA, 1989. Late Paleozoic deformation of the cratonic carbonate cover of eastern North America. [Geology, 17, 416-419](#). (20)
- Gales, JE, van der Pluijm, BA, Van der Voo, R, 1989. Paleomagnetism of the Lawrenceton Formation, Silurian Botwood Group; Change Islands, Newfoundland. [Can. J. Earth Sci., 26, 296-304](#). (21)
- van der Pluijm, BA, Carlson, KA, 1989. Extension in the Central Metasedimentary Belt of the Ontario Grenville: timing and tectonic significance. [Geology, 17, 161-164](#). (22)
- Craddock, JP, van der Pluijm, BA, 1988. Kinematic analysis of an en echelon-continuous vein complex. [J. Struct. Geol., 10, 445-452](#). (16)
- Schedl, A, van der Pluijm, BA, 1988. A review of deformation microstructures. [J. Geol. Educ., 36, 111-121](#). (17)
- van der Pluijm, BA, van Staal, CR, 1988. Characteristics and evolution of the Central Mobile Belt, Canadian Appalachians. [J. Geol., 96, 535-547](#). (18)
- van der Pluijm, BA, Lee, JH, Peacor, DR, 1988. Analytical electron microscopy and the problem of potassium diffusion. [Clays Clay Miner., 36, 498-504](#). (19)
- van der Pluijm, BA, 1987. Timing and spatial distribution of deformation in the Newfoundland Appalachians: A 'multi-stage collision' history. [Tectonophysics, 135, 15-24](#). (12)
- van der Pluijm, BA, 1987. Grain-scale deformation and the fold test - evaluation of syn-folding remagnetization. [Geoph. Res. Letters, 14, 155-157](#). (13)
- van der Pluijm, BA, 1987. Note on analysis of quartz grain dimensions in foliated greywackes. [Geol. Rundsch., 76, 851-855](#). (14)
- van der Pluijm, BA, Karlstrom, KE, Williams, PF, 1987. Fossil evidence for fault-derived stratigraphic repetition in the northeastern Newfoundland Appalachians. [Can. J. Earth Sci., 24, 2337-2350](#). (15)
- Raven, JGM., van der Pluijm, BA, 1986. Metamorphic fluids and transtension in the Cantabrian Mountains of northern Spain: an application of the conodont colour alteration index. [Geol. Mag., 123, 673-681](#). (11)
- Schedl, AD, van der Pluijm, BA, 1986 (edition I), 1987 (edition II). Deformation microstructures in rock analogues. Video/audio (29 min.). (10)
- van der Pluijm, BA, 1986. Geology of eastern New World Island, Newfoundland: an accretionary terrane in the northeastern Dunnage Zone. [Geol. Soc. Am. Bull., 97, 932-945](#). (9)

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- van der Pluijm, BA, 1984. An unusual 'crack-seal' vein geometry. *J. Struct. Geol.*, **6**, 593-597. (7)
- van der Pluijm, BA, 1984. Mica beards in three slates: Morphology, formation and bearing on the strain history. *Geol. Rundsch.*, **73**, 1037-1053. (6)
- van der Pluijm, BA, Kaars-Sijpesteijn, CH, 1984. Chlorite-mica aggregates: Morphology, orientation, development and bearing on cleavage formation. *J. Struct. Geol.*, **6**, 399-407. (5)
- Karlstrom, KE, van der Pluijm, BA, Williams, PF, 1983. Structural interpretation of the eastern Notre Dame Bay area, Newfoundland: Regional post-Middle Silurian thrusting and asymmetrical folding - Reply. *Can. J. Earth Sci.*, **20**, 1353-1354. (4)
- Karlstrom, KE, van der Pluijm, BA, Williams, PF, 1983. Sedimentology of Upper Ordovician-Lower Silurian sequences on New World Island, Newfoundland: Separate fault-controlled basins? - Discussion. *Can. J. Earth Sci.*, **20**, 1757. (3)
- van der Pluijm, BA, Williams, PF, 1983. The eastern Notre Dame Bay area, Newfoundland. Fieldtrip Guide D, *Int. Geol. Corr. Progr.*, 16p. (2)
- Karlstrom, KE, van der Pluijm, BA, Williams, PF, 1982. Structural interpretation of the eastern Notre Dame Bay area, Newfoundland: Regional post-Middle Silurian thrusting and asymmetrical folding. *Can. J. Earth Sci.*, **19**, 2325-2341. (1)

BOOKS, VOLUMES

- van der Pluijm, B, Marshak, S, 2017. [PROCESSES IN STRUCTURAL GEOLOGY AND TECTONICS](#). Authors/*WW Norton*, New York. ISBN: 978-1-5323-0282-4, doi 10.13140/RG.2.1.2845.9126.
- van der Pluijm et al, 2010. THE UNIVERSITY OF MICHIGAN: AN INSTITUTION OF GLOBAL LEARNING, KNOWLEDGE AND ENGAGEMENT, Ann Arbor, 158p. Website: <http://www.accreditation.umich.edu/>
- van der Pluijm, BA, Marshak, S, 2004. EARTH STRUCTURE - AN INTRODUCTION TO STRUCTURAL GEOLOGY AND TECTONICS; 2ND EDITION. *WW Norton*, New York, 656p.
- MacNiocail, C, Torsvik, T, van der Pluijm, BA (Editors), 2003. PALEOMAGNETISM APPLIED TO TECTONICS: A TRIBUTE TO ROB VAN DER VOO. *Tectonophysics*, **362**, 366p.
- Samson, P, King, D, O'Dunn, S, Sverdrup, K, van der Pluijm, BA, 2000. EARTH SYSTEMS TODAY – INTERACTIVE, INTERNET-BASED CD. *Brooks/Cole*, Pacific Grove.
- Marshak, S, van der Pluijm, BA, Hamburger, M (Editors), 1999. TECTONICS OF CONTINENTAL INTERIORS. *Tectonophysics*, **305**, 417p.
- van der Pluijm, BA, Marshak, S, 1997. EARTH STRUCTURE - AN INTRODUCTION TO STRUCTURAL GEOLOGY AND TECTONICS. *McGraw-Hill*, Dubuque, 495p.
- Kusky, T, van der Pluijm, BA, Condie, K, and Coney, P (Editors), 1996. TECTONIC SETTING AND TERRANE ACCRETION IN PRECAMBRIAN OROGENS. *Tectonophysics*, **265**, 179p.
- van der Pluijm, BA, Catacosinos, PA (Editors), 1996. BASEMENT AND BASINS OF EASTERN NORTH AMERICA. *Geol. Soc. Am. Spec. Paper*, **308**, 209p.

OTHER PUBLICATIONS

- van der Pluijm, B, 2019. Book review: Timefulness: How Thinking Like a Geologist Can Help Save the World. *The Holocene*, **29**, 363. <https://doi.org/10.1177/0959683618819934>
- Huntington, KW, Klepeis, KA, et al., 2018. Challenges and opportunities for research in tectonics: Understanding deformation and the processes that link Earth systems, from geologic time to human time. Univ of Washington, 84 pp., <https://doi.org/10.6069/H52R3PQ5>.
- Hanson et al, 2017. Earth and Space Science for the Benefit of Humanity. *Eos/AGU*. 10.1029/2018EO071991
- AGU-AMA, 2017. Ken Caldeira and Ben van der Pluijm: Ask Us Anything about Global Climate Change!. *The Winnower*, **4**, doi 10.15200/winn.149027.73446.
- Michigan Radio, 2016. Move aside Holocene: Humans now pushing Earth into new geological era. [Podcast](#).
- van der Pluijm, B, 2015. Earth's Future: Now indexed in Web of Science. *Eos*, **96**, doi 10.1029/2015EO031317.
- Brasseur, G, van der Pluijm, B, 2013. Earth's Future: Navigating the Science of the Anthropocene. *Earth's Future*. doi 10.1002/2013EF000221.
- Grimm, N, van der Pluijm, B, 2012. Sustainability needs the Geosciences. *Eos*, **93**, 441.
- Killeen, T, Uhle, M, van der Pluijm, B, 2012. The International Opportunities Fund for Global Change Research. *Eos*, **93**, 257-258.
- [Arts & the Environment](#) – Earth (installation), 2008.
- Carlson et al., 2002. EarthScope 2001: [Scientific Targets](#). 56p.
- Brown et al., 2003. Integrated Solid Earth Sciences (ISES) 2002. Report: "Setting Priorities". 21p.

MacNiocail, C, van der Pluijm, B, Torsvik, T, 2001. Gathering recognizes contributions of former section president, *Eos*, 82, 557.
Book and Video reviews.

WoS Author=([van der pluijm b* or vanderpluijm b* or vanderpluum b*](#)); [ResearcherID](#).
Scopus Author=([van der pluijm b](#)).
Google Scholar=([Ben van der Pluijm](#)).

INVITED LECTURES

Chi Epsilon, Michigan Chapter (2019)
UMAA/Patagonia (2019)
Western Michigan University (2019)
Univ of Western Ontario, Canada (2019)
Michigan State University (2019)
U-M Saturday Morning Physics (2018)
Ann Arbor Public Library (2017)
U-M Natural History Museum (2017)
S Alaska/UMAA (2017)
Rochester Hills Public Library (2017)
Cornell University (2016)
University of Utah (2016)
MS Serenissima, White Sea/UMAA (2015)
NTNU, Norway (2015)
Montana State University (2015)
Central Michigan University (2015)
University of Washington (2014)
University of Michigan (2014)
UNAM, Mexico (2014)
AGU-Science Lecture (2014)
University of the Pacific (2014)
Purdue University (2014)
Cal State University, Bakersfield (2013)
University of Arkansas (2013)
Texas A&M (2013)
Le Boreal, Greenland/UMAA (2013)
Universität Greifswald, Germany (2013)
GFZ-Potsdam, Germany (2013)
University of Auckland, NZ (2013)
Peru and Ecuador/UMAA (2012)
Stanford University (2012)
University of Michigan (2012)
Independent Colleges (2012; VTC)
Columbia University (2012)
Lamont Earth Observatory (2012)
Portland State University (2012; VTC)
Arizona State University (2011)
Invited and keynote presentations at (inter)national meetings and workshops.
Invited presentations on academic affairs at panels, workshops, programs, etc.

Le Boreal, Antarctica/UMAA (2011)
University of Michigan (2011)
Alberta Geological Survey, Canada (2010)
University of Toronto, Canada (2010)
University of Vermont (2010)
Western Michigan University (2009)
University of Wisconsin-Madison (2007)
Pennsylvania State University (2006)
Yale University (2003)
Utrecht University, Netherlands (2002)
Ohio State University (2001)
Universität Münster, Germany (1999)
Chinese Academy of Sciences, China (1999)
Qinghai Geological Institute, China (1999)
Central Michigan University (1999)
Michigan State University (1999)
Calvin College (1999)
Bowling Green State University (1999)
Northwestern University (1998)
Norway Geological Survey, Norway (1997)
University of Barcelona, Spain (1997)
University of Cincinnati (1996)
Indiana University (1995)
University of Western Ontario, Canada (1995)
Université de Montréal, Canada (1994)
Universiteit van Utrecht, Netherlands (1992)
University of Illinois-U/C (1991)
Western Michigan University (1991)
Techn. Hochschule Darmstadt, Germany (1991)
Joh Gutenberg Universität Mainz, Germany (1991)
Bowling Green State University (1991)
University of Michigan (1990)
Bowling Green State University (1989)
USGS-Reston (1989)
Western Michigan University (1988)
Michigan State University (1987)

REVIEWER

Journals and book publishers; National and international funding agencies; National and International awards;
Promotion, tenure and arbitration dossiers.

GRADUATE STUDENT ADVISER (MSc, PhD)

Boles, Austin (PhD 2017)
Busch, Jay P. (PhD 1996)
Carlson, Katherine A. (MSc 1988)
Cederquist, Donald P. (MSc 1993)
Craddock, John P. (PhD 1988)
Cureton, James S. (MSc 1994)
Gales, Julie E. (MSc 1987)

Haines, Samuel (PhD 2008)
 Harris, John H. (MSc 1996)
 Hassold, Noralynn J.C. (PhD 2006)
 Hnat, James (PhD 2009)
 Ho, Nei-Che "Nigel" (PhD 1997)
 Housen, Bernard A. (PhD 1994)
 Howell, Paul D. (PhD 1993)
 Joseph, Leah H. (PhD 2001)
 Kollmeier, John M. (MSc 1999)
 Liss, Margo J. (MSc 1992)
 Lombard, Art D. (MSc 1990)
 Lynch, Erin (PhD 2018)
 McNamara, Allen K. (MSc 1998)
 McWhinnie, Scott T. (MSc 1988)
 Meyers, Elizabeth V. (MSc 1996)

Nemkin, Samantha (PhD 2017)
 O'Brien, Timothy M. (MSc 2012)
 Ong, Philip (MSc 2004)
 Potts, Stephen S. (PhD, 1994)
 Rathmell, Mark A. (MSc 1993)
 Solum, John P. (PhD 2005)
 Streepey, Margaret M. (PhD 2001)
 Todaro, Sean M. (MSc 1994)
 Tohver, Eric (PhD, 2003)
 Tourscher, Sara N. (MSc 2007)
 Tuccillo, Mary Ellen (MSc 1990)
 Weil, Arlo B. (PhD 2001)
 Wellensiek, M. Reid (MSc 1988)
 Yonghong, Yan "Jessie" (MSc 2000)

Not listed: multiple undergraduate theses (+/-honors).

POST-DOCTORAL FELLOWS/RESEARCH ASSOCIATES

Abad, Isabel (2010)
 Day-Stirrat, Ruarri J. (2005-11)
 Fitz-Diaz, Elisa (2011-13)
 Haines, Samuel F. (2008)
 Housen, Bernard A. (1994)
 Jacob, Gerd (1997-99); deceased
 Johnson, Rex J.E. (1987-90)
 Knoop, Peter J. (2002-06)
 Mac Niocaill, Conall (1995-96, 1999)
 Magloughlin, Jerry F. (1993-95)
 Mezger, Klaus (1989-91)

Nyman, Matthew W. (1997-98)
 Pares, Josep M. (1997-08)
 Rahl, Jeffrey M. (2005-06)
 Richter, Carl (1990-93)
 Schedl, Andrew D. (1986-87)
 Schleicher, Anja (2005-09)
 Stamatakos, John D. (1992-95)
 Tohver, Eric J. (2003-04)
 Verdel, Charles (2008-10)
 Warr, Laurence N. (2000-04)

COURSES TAUGHT

Earth101	Matter, Life and Environment (1cr, ugrad)
Earth111	Habitable Planet (1cr; ugrad)
GS105	Continents Adrift (1cr; ugrad)
Earth/Environ119	Intro to Earth Science (4cr, ugrad)
GS120	National Parks (4cr; ugrad)
Earth159	Toward a sustainable human future (3cr; ugrad)
GS170	Matter, Life, Environment (1cr; ugrad)
Environ110/GS171	Global Change I: Physical Processes (4cr; ugrad)
Environ111/GS172	Global Change II: Human Impacts (4cr; ugrad)
	Global Change: The Sustainability Challenge (4cr; ugrad)
Environ212	Global Change III: Sustainability Studies (4cr; ugrad)
Earth259/ Environ259	Earth's Future and a Resilient Human Society (4cr; ugrad)
GS205	How Earth Works: The Dynamic Planet (2cr; ugrad)
GS207	How Earth Works: Hands-On (2cr; ugrad)
GS265	How to Build a Habitable Planet (3cr; ugrad)
GS284/Environ284	Environmental Geology (4cr; ugrad)
GS351 (&451)	Structural Geology/Earth Structure (4cr; ugrad)
GS440	Fieldcamp for Geology Majors (8cr; ugrad)
GS515 (=GS606)	Tectonics (4cr; grad)
GS525	Tectonophysics (4cr; grad)
GS534	Annual Research Seminar in Geophysics, Tectonics and Structure (1cr; grad)
GS552 (=GS662)	Advanced Structural Geology (3cr; grad):
	Fracture Mechanics of Rocks (3cr; grad)
	Metamorphic Textures and Microstructures (3cd; grad)
	Strain (3cr; grad)

(Note: GS courses relabeled Earth after 2011 departmental name change to Earth & Environmental Sciences)

RESEARCH FUNDING

2016

National Science Foundation (EAR-1629805); "Fold Dating in the Central Appalachian Valley-and-Ridge"; \$147,559; 8/15/16-7/31/20.

2013

College of LSA (U-M); "Learning with Prezis"; \$4,500; 6/1/13-12/31/13.

2012

National Science Foundation (HRD-1216750); "Dating of folds"; \$135,453; 9/15/12-8/31/14.

Alberta Geological Survey; "Timing of foreland thrusting in the Canadian Rockies"; \$18,200, 6/1/12-5/31/13.

2011

Alberta Geological Survey; "Timing of foreland thrusting in the Canadian Rockies"; \$14,400, 8/1/11-5/31/12.

GDL Foundation: "Illite to muscovite transition; northern Appalachians"; \$2,500; 6/1/11-5/31/12.

International Continental Drilling Program; "Deep Fault Drilling Project (DFDP), Alpine Fault, New Zealand: Phase 2 - conditions at 1.5 km depth" (Sutherland, Townend, Toy, Cox, Gorman, Kopf, Malin, Davies, Prior, Schmitt, Erzinger, van der Pluijm, Sato, Tobin, Hirono, Thurber, Doan, Little, Wilson; \$1,000,000; 01/15/12-1/31/15.

National Science Foundation (EAR-1118704); "Fluids in continental fault zones; Evidence from neomineralized clays"; \$230,000, 09/01/11-08/31/15.

National Science Foundation (GEO-1145496): "IPA, Integrated Global System Science Program"; \$195,040; 8/1/11-7/31/12.

2010

Alberta Geological Survey; "Timing of foreland thrusting in the Canadian Rockies"; \$20,000, 8/1/10-5/31/11.

2008

National Science Foundation (EAR-0738435); "Dating illitic fault rocks and applications to Cordilleran normal faults"; \$163,220; 01/15/08-12/31/12.

2007

American Chemical Society-Petroleum Research Fund (PRF# 45893-AC8); "Curvature of Orogenic Fronts: A Study of the US Appalachians"; \$87,455, 5/1/07-8/31/09.

Carnegie Foundation; "CASTL Leadership Program" (Bierwert, Kaplan, Dey, vdP, Teorey).

Deutsche Forschungs Gemeinschaft (SCH); "The importance of clay mineral reactions on the seismic behavior of the San Andreas Fault: Part 2-Hydration states and timing of mineralization" (Schleicher PDF); ~\$48,000; 5/25/07-12/31/08.

National Science Foundation (admin. by EarthScope; EAR-0641695); "The Western GeoSwath – workshop"; \$60,000; 2/1/07-12/31/10.

2006

College of LSA (U-M); "Using wireless technologies in survey courses to expand student discourse" (Samson, Teasley, vdP); \$80,000; 5/1/06-6/30/07.

Deutsche Forschungs Gemeinschaft; "Rift Dynamics, uplift and climate change: interdisciplinary research linking asthenosphere, lithosphere, biosphere and atmosphere" (Koehn, Passchier, Rein, vdP, Calais, Malthes-Sørenssen); ~\$98,000 (total €2.1M); 3/1/06-8/31/08.

Deutsche Forschungs Gemeinschaft (SCH 1821/1-1); "The importance of clay mineral reactions on the seismic behavior of the San Andreas Fault from inferred TEM analyses on SAFOD-cutting samples" (Schleicher PDF); ~\$47,000; 5/25/06-5/24/07.

National Science Foundation (EAR-0629331); "SGER: Exploratory thermochronology of synorogenic deposits as a new tool to constrain the long-term erosional history of mountain belts" (vdP, Rahl, Ehlers); \$21,027; 03/01/06-11/30/08.

2005

College of LSA (U-M); "Wireless PocketPCs in Large Introductory Courses to Expand Discourse and Interactivity" (vdP, Knoop, Samson); \$52,000; 5/1/05-6/30/07

Hewlett-Packard Foundation; "Wireless PocketPCs in Large Introductory Courses" (vdP and Knoop); \$125,000; 1/6/05-4/30/08.

National Science Foundation (admin. by EarthScope); "GeoTraverse" (New Mexico); 3/05; \$12,000.

National Science Foundation (admin. by EarthScope); "GeoTraverse: a geologic framework for USArray – workshop"; 2006; \$50,000; 9/15/05-9/30/06.

National Science Foundation (GeoEd-0507522); "Evaluating wireless PocketPC's in introductory geoscience courses" (Samson, Teasley, van der Pluijm); \$99,965; 8/1/05-7/31/06.
Provost's Office (U-M); "Wireless PocketPCs in Large Introductory Courses to Expand Discourse and Interactivity"; \$70,000; 11/1/05-12/31/09.

2004

Geological Society of America; "Current Research"; \$6,200; 1/1/04-12/31/04.
Hewlett-Packard Foundation: "GeoPad-Lite" (vdP, Knoop); 5/1/04-4/30/05; \$45,000.
National Earthquake Hazards Reduction Program (USGS-04HQGR0066); "Friction melts and coseismic faulting" (vdP, Ruff, Warr); \$65,000; 1/1/04-8/31/05.
National Science Foundation (EAR-0345985); "SAFOD: Mineral transformations and fabrics"; 4/1/04-4/30/08; \$129,192.
National Science Foundation (EAR-0337091); "A physical record of the circumpolar circulation of the Southern Ocean - late Miocene to Pleistocene" (Rea, Pares, vdP); 5/1/04-4/30/06; \$132,559.
National Science Foundation (DUE-0410537); "GeoPad: Information Technology for Field-based Education" (vdP, Knoop); 9/15/04-8/31/08; \$215,983 (incl. \$50,000 UM match).
National Science Foundation (EAR-0446572); "SAFOD: 2004 sample analysis workshop"; 9/1/04-12/31/04; \$15,500.
National Science Foundation; "ISES Forum II (San Francisco)" (Brown, 4 co-PIs); 12/04; \$40,000.

2003

Geological Society of America; "Current Research"; \$4,700; 1/1/03-12/31/03.
College of LSA (U-M); "Information Technology for Field Science Education" (vdP, Knoop); \$49,869; 2/1/03-12/31/04.
National Science Foundation; "ISES Forum I: CyberInfrastructure and Geochronology (Seattle)" (Brown, 4 co-PIs); \$52,900.
National Science Foundation (EAR-0230055); "Radiometric dating of the Rocky Mountain foreland thrust Belt" (vdP and Hall); \$210,000; 1/1/03-12/31/05.
Schürmann Fonds (NL); "Late Precambrian Amazonia"; \$5,500; 5/1/03-12/31/03.
Scott Turner Award (U-M); "Digital microscopy"; \$1,000; 5/1/03-12/31/03.

2002

Geological Society of America; "Current Research"; \$4,000; 1/1/02-12/31/02.
Schürmann Fonds (NL); "Amazonia in Rodinia"; \$5,000; 5/1/02-12/31/02.
National Science Foundation/DOSECC; "San Andreas Pilot Hole (pre-SAFOD)"; \$5,000; 6/1/02-12/31/02.
National Science Foundation (EAR-0230059); "SGER Award-Exploratory work in Rondônia: the Laurentia-Amazonia connection"; \$19,562; 7/15/02-7/14/03.
National Science Foundation; "Setting priorities in solid Earth sciences" (Brown, 4 co-PIs); \$40,000; 9/1-02-12/31/02
Provost's Office (U-M); "The Global Change Project" (lead-PI); \$130,000; 9/1/02-8/31/04.

2001

American Chemical Society-Petroleum Research Fund; "Curvature of the Pennsylvania Salient"; \$80,000; 1/1/02-8/31/05.
Geological Society of America; "Current Research"; \$4,000; 1/1/01-12/31/01.
Schürmann Fonds (NL); "Amazonia in Rodinia"; \$5,000; 5/1/01-4/30/02.
Provost's Office (U-M); "The Global Change Project" (lead-PI; 6 co-PI's); \$126,000; 9/1/01-8/31/02.

2000

Provost's Office (U-M); "The Global Change Project" (lead-PI; 6 co-PI's); \$120,000; 5/1/00-8/31/03.
William and Flora Hewlett Foundation; "An interdisciplinary minor in Global Change at the University of Michigan" (lead-PI; 6 co-PI's); \$300,000 (incl. \$150,000 U-M match); 5/1/00-4/30/04.
Geological Society of America; "Current Research"; \$4,000; 1/1/00-12/31/00.
Michigan Space Grant Consortium (NASA); "Development of new interdisciplinary course: Global Change III, Studies of Sustainability"; \$5,000; 5/1/00-4/30/01.

1999

National Science Foundation (EAR-9980459); "Ar dating of near-surface faulting" (vdP, C.M. Hall); \$131,894; 1/1/00-6/30/02.
Gilbert Whitaker Fund (U-M) and LSA (U-M); "Interdisciplinary Global Change Curriculum - Workshop"; \$5,000; 5/1/99-4/30/00.
Scott Turner Award (U-M); "Ophiolites in the eastern Kunlun Shan, China"; \$1,000; 6/1/99-5/31/00.

Geological Society of America; "Current Research"; \$2,000; 6/1/99-12/31/99.
1998
National Science Foundation (EAR-9814343); "Incipient cleavage development in mudrock, revealed by magnetic ellipsoid evolution" (vdP, J.M. Parés); \$122,014; 1/1/99-12/31/01.
National Science Foundation (EAR); "Determination of P-T-t path and deformation history for the Carthage-Colton mylonite zone, New York State" (RUI collaboration; Central Michigan University, E.L. Johnson, PI); \$65,000 (~\$30,000 for U-M); 1/1/98-12/31/99.
College of LSA (U-M); "Web-based activities for lower-level undergraduate science instruction"; \$5,000; 6/1/98-8/31/98.
College of Engineering (U-M); "Digital seismograph for Global Change Laboratory"; \$5,000; 1/1/98-12/31/98.
1997
National Science Foundation (EAR-9614407); "Clay fabrics in fault gouge" (vdP, D.R. Peacor); \$165,745; 3/1/97-2/29/2001.
National Science Foundation and US Geological Survey; "Support for Penrose Conference" (co-PI with S. Marshak (UIUC) and M. Hamburger (IU)); \$24,000; 6/1/97-12/31/97.
National Earthquake Hazards Reduction Program (USGS); "Direct Ar-Ar dating of pseudotachylyte" (co-PI with J. Magloughlin and C. Hall); \$55,000; 4/1/97-3/31/98.
Instructional Technology Program (U-M); "Computer-aided learning in Earth Sciences" (co-PI with P. van Keken); \$27,300; 5/1/1997-4/30/1998.
1996
National Science Foundation (EAR-9627911); "The Carthage-Colton shear zone, NY" (co-PI with E.J. Essene and K. Mezger); \$154,977; 9/1/96-8/31/99.
Scott Turner Award (U-M); "Phyllosilicate fabrics in fault gouge"; \$1,100; 6/1/96-8/31/96.
1995
National Science Foundation (EAR-9508316); "Paleomagnetism of the Avalonian margin of Iapetus" (co-PI with R. Van der Voo); \$130,000; 7/1/95-6/30/98.
Center for Research on Learning and Teaching (UM); "Multimedia/internet resources in Earth Science instruction"; \$4,332; 5/1/95-4/30/96.
Faculty Assistance Fund (U-M); "Penrose conference travel"; \$1,000; 8/31/95-9/5/95.
Pre-1995
Ocean Drilling Program (USSSP 156-20855a; Texas A&M University/NSF); "Shipboard participation in O.D.P. leg 156 (Barbados)"; \$11,057; 5/29/94-8/29/94.
Scott Turner Award (U-M); "1995 Turner Lecture Series by John F. Dewey"; \$4,000; 5/1/94-4/30/95.
National Science Foundation (EAR-9418255); "Penrose conference: Fine-grained fault rocks"; \$7,500; 1/1/95-12/31/95.
American Chemical Society-Petroleum Research Fund; "Textural analysis of diagenetic to low-grade pelites" (co-PI with D.R. Peacor); \$50,000; 9/1/93-8/31/95.
National Science Foundation (EAR 93-05736); "Grenville shear zones of the CMB, southern Ontario"; \$79,990; 6/1/93-5/31/95.
Ocean Drilling Program (USSSP 146-20696; Texas A&M University/NSF); "Microstructural fabrics in the Cascadia accretionary prism characterized by mineral-preferred orientation in Leg 146 samples" (co-PI with B.A. Housen); \$21,602; 1/1/93-12/31/93.
Office of the Vice-President for Research (U-M); "A Kappabridge for magnetic anisotropy research"; \$15,000 (+\$6,000 Department); 4/1/93-3/30/94.
National Science Foundation; REU-supplement to EAR 91-19196; \$4,188; 9/1/92-5/31/93.
National Science Foundation (EAR 92-17986); "Acquisition of a cryogenic magnetometer and a thermal demagnetizer" (co-PI with R. Van der Voo); \$73,000 (+\$73,000 U-M); 12/1/92-11/30/94.
Scott Turner Award (U-M); "GPS receiver" (co-PI with R. Van der Voo); \$3,100; 4/1/92-1/1/93.
Scott Turner Award (U-M); "Cryogenic anisotropy equipment"; \$1,100; 4/1/92-3/31/93.
Maraven S.A. (Venezuela); "Deformation of the cratonic carbonate cover of eastern Newfoundland"; \$5,000; 6/1/92-8/31/93.
Ocean Drilling Program (Texas A&M University/NSF); "ODP Shipboard scientist support"; \$11,713; 9/1/92-9/1/93.
Deutsche Forschungsgemeinschaft (West-Germany); "Messung der Anisotropie der magnetischen Suszeptibilität (AMS) natürlicher Gesteine" (post-doctoral fellowship for Dr. C. Richter); \$18,000; 1/1/93-6/30/93.
National Science Foundation (EAR 91-18021); "Paleomagnetism of Ordovician and Silurian units in the northern Appalachians" (co-PI with R. Van der Voo); \$200,000; 1/1/92-12/31/94.

National Science Foundation (EAR 91-19196); "Magnetic anisotropy fabrics and deformation: new approaches in synthetic and natural samples"; \$119,624 (+\$12,250 U-M); 2/1/92-1/31/94.

Scott Turner Award (U-M); "Travel to international meeting (Bochum, Germany)"; \$400; 2/21-2/24/90.

Deutsche Forschungsgemeinschaft (West-Germany); "Messung der Anisotropie der magnetischen Suszeptibilität (AMS) natürlicher Gesteine" (post-doctoral fellowship for Dr. C. Richter); \$75,000; 11/1/90-10/31/92.

Scott Turner Award (U-M); "Digitizing tablet for geologic maps and other applications"; \$1,400; 3/1/89-3/1/90.

National Science Foundation (EAR 89-05811); "Paleomagnetism of Lower Paleozoic terranes in the northern Appalachians" (co-PI with R. Van der Voo and R.J.E. Johnson); \$115,000; 6/1/89-5/31/91.

National Science Foundation (EAR 89-03805); "Grenville marble mylonites"; \$65,000; 6/1/89-5/31/91.

Michigan Memorial-Phoenix Project (722); "Tectonic setting of the Weeksboro-Lunksoos Lake terrane, Maine Appalachians"; \$3,950; 6/1/89-8/31/90.

United States Geological Survey; "Tectonic history of the Boil Mountain Ophiolite, Maine Appalachians" (graduate student support; A.D. Lombard); \$5,400; 5/1/89-4/30/90.

American Chemical Society-Petroleum Research Fund (20755-G2); "Evaluation of conodont and illite geothermometers"; \$18,000; 9/1/88-8/31/90.

Geological Survey of Canada; "Field study in the eastern Britt Domain, Ontario Grenville"; \$2,000; 6/1/88-8/31/88.

National Science Foundation (EAR 88-05803); "Evolution of the Grenville Terrane in Ontario" (co-PI with E.J. Essene and A.N. Halliday); \$143,139; 8/1/88-7/31/90.

United States Geological Survey; "Tectonic history of the Boil Mountain Ophiolite, Maine Appalachians" (graduate student support; A.D. Lombard); \$2,900; 6/1/88-4/30/89.

National Science Foundation (EAR 86-12469); "Paleomagnetism of Lower Paleozoic terranes" (co-PI with R. Van der Voo); \$113,190; 2/1/87-1/31/89.

Scott Turner Award (U-M); "Digital universal stage for studies of crystallographic preferred fabrics in deformed rocks"; \$2,650; 3/1/87-3/1/88.

CRLT-LSA Teaching Award (U-M); "Teaching deformation microstructures in structural geology"; \$3,975; 7/1/86-6/30/87.

Faculty Development Fund and LSA (U-M); "Deformation of rock analogues for instruction in structural geology - a visual approach"; \$3,600; 5/1/86-6/30/87.

Rackham Faculty Grant (U-M); "Structural geology of Change Islands, Newfoundland"; \$6,894; 1/1/86-12/31/87.