

CURRICULUM VITAE
Abbreviated Version (The Complete CV is 120 pages)
July 2014

PERSONAL DATA

Victor R. Baker

Current Position	Regents' Professor , Department of Hydrology and Water Resources; Professor of Planetary Sciences; Professor of Geosciences, and Professor in The Lunar and Planetary Laboratory ; The University of Arizona
Home	2993 E. Placita Santa Lucia Tucson, Arizona 85716-0816 Telephone (520) 319-2457
Professional	Department of Hydrology and Water Resources J.W. Harshbarger Building, Room 122 1133 E. James E. Rogers Way The University of Arizona Tucson, Arizona 85721-0011 Telephone: (520) 621-7875; Fax: (520) 621-1422 E-mail: baker@hwr.arizona.edu
Date and Place of Birth	February 19, 1945 Waterbury, Connecticut, U.S.A.
Family Information	Married to Pauline M. (Heaton) Baker Children: Trent, Theodore
Biographical Listings	American Men and Women of Science Who's Who in America

FORMAL EDUCATION

Heidelberg American High School, Heidelberg, Germany (graduation in 1963)
Rensselaer Polytechnic Institute, Troy, New York: B.S. in 1967, Major in Geology
University of Colorado, Boulder, Colorado: Ph.D. in 1971, Geology

ACADEMIC AND PROFESSIONAL POSITIONS

1996-Present	Regents' Professor of Hydrology and Water Resources, Geosciences, and Planetary Sciences, The University of Arizona
2012	Visiting Professor in the Fredy and Nadin Hermann Institute of Earth Sciences, Hebrew University of Jerusalem, Israel
1996-2004	Head, Department of Hydrology and Water Resources , The University of Arizona
2002-2012	Adjunct Professor, Centre for Geoscience and Engineering, Anna University, Chennai (Madras), India
1988-Present	Regents' Professor, The University of Arizona
1994-1995	Visiting Fellow, Udall Center for Studies in Public Policy, The University of Arizona
1988	Visiting Research Fellow, Department of Geology and Geophysics, The University of Adelaide, South Australia

1987-1988	Visiting Research Fellow, National Institute of Hydrology, Roorkee, India
1987-1988	Visiting Research Fellow, Department of Archaeology, Deccan College, Pune, India
1982-Present	Joint Appointment as Professor of Planetary Sciences/Lunar and Planetary Laboratory, The University of Arizona
1981-Present	Professor of Geosciences, The University of Arizona
1976-1981	Associate Professor to Professor, Department of Geological Sciences, The University of Texas at Austin
1979-1980	Visiting Fellow, The Australian National University (Fulbright-Hays Senior Research Scholar)
1971-1976	Assistant Professor, Department of Geological Sciences, The University of Texas at Austin
1973	Research Scientist, Bureau of Economic Geology, The University of Texas at Austin
1969-1971	City Geologist, City of Boulder, Colorado
1967-1969	Geophysicist, U.S. Geological Survey, AEC Hydrology Group, Denver, Colorado
1966-1967	Geophysicist-Hydrologist, U.S. Geological Survey, Water Resources Division, Albany, New York
1965-1966	Research Assistant in Sedimentology, Department of Geology, Rensselaer Polytechnic Institute, Troy, New York

HONORS AND AWARDS

2014	Harold McMaster Visiting Scientist, Bowling Green State University Certificate of Excellence in Reviewing for the journal <i>Planetary and Space Science</i>
2013	Invited Lecturer, Accademia Nazionale dei Lincei, Classe di Scienze Fisiche, Matematiche e Naturali, Palazzo Corsini, Rome, Italy (May 10) Named an Inaugural Fellow, British Society for Geomorphology (FBSG)
2012-2013	Inaugural Distinguished International Lecturer , The Geological Society of America
2011	John T. Loucks Distinguished Lecturer, Western South Dakota Hydrology Conference, Rapid City, South Dakota <i>Sensors</i> Best Paper Awards, 3 rd Prize for the Denlin et al. (2005) - listed below.
2010	Distinguished Career Award , The Geological Society of America, Quaternary Geology and Geomorphology Division
2008	Inaugural David L. Weide Lecturer, University of Nevada Las Vegas
2007	NASA Group Achievement Award to the Earth Observing One Sensorweb Team. The certificate reads: “for outstanding achievement in the development of an operational 24/7 autonomous Earth Observing Sensorweb, integrating multiple space and ground sensors.”
2005	NASA Group Achievement Award to the Autonomous Sciencecraft Experiment” team (I was a team member). The certificate reads: “for outstanding accomplishments in demonstrating, as part of the Earth Observing-1

- mission, the potential for space missions to increase total engineering and science data return by using spacecraft autonomous decision making.”
- NASA Software of the Year Award**, Certificate of Recognition “presented to Victor R. Baker, for the creative development of exceptional scientific and technical contributions which have determined to be of significant value in the advancement of the aerospace technology program of NASA, entitled The Autononmous Sciencecraft Experiment,” September 6, 2005.
- 2003 Barringer Lecturer, University of Arkansas, Fayetteville, Arkansas
- 2003 Visiting Scientist, American Academy in Rome (Italy)
- 2002 University Distinguished Lecturer, Trinity University, San Antonio, Texas
International Hydrological Decade Endowment Lecturer, Anna University, Chennai, India
- Don J. Easterbrook **Distinguished Scientist Award of The Geological Society of America** (awarded “to an individual who has shown unusual excellence in published research that has substantially increased knowledge in Quaternary geology and geomorphology”)
- 2001 International Water and Science Award (“Gran Prix International de Cannes de l’Eau et de la Science”), presented at the European Union Third International Symposium on Water)
- 2000 Elected Fellow, Arizona/Nevada Academy of Sciences
- 1999 Elected **Honorary Fellow, European Geosciences Union**
Wreford Watson Lecturer, University of Edinburgh
Caswell Silver Lecturer, University of New Mexico
- 1998 Elected **Fellow, American Geophysical Union**
Honorary West Virginian Award conferred by the governor of West Virginia
- 1995 Distinguished Bartle Lecturer, Binghamton University
David Linton Award, British Society for Geomorphology, given for
"a continuing major contribution to the science of geomorphology"
- 1994 Institute for the Study of Planet Earth Fellow, Udall Center for Studies in Public Policy
Elected **Foreign Member of the Polish Academy of Sciences**
- 1992 **NASA Group Achievement Award** for the Magellan Science Group to Victor R. Baker in recognition of outstanding achievement in performing the various science tasks that have been a major part of the successful Magellan mission.
- 1989 Elected **Fellow, American Association for the Advancement of Science**
- 1988 **Regents’ Professorship, The University of Arizona**
- 1987-1988 **Indo-American Fellowship** (Awarded by the American Secretariat of the Indo-U.S. Subcommittee on Education and Culture for a 2-month Project
"Paleoflood Hydrology and the Indian Monsoon")
- 1979-1980 **Fulbright-Hays Senior Research Scholar** (Awarded for Research on Australian Paleofloods as a Visiting Research Fellow, The Australian National University)
- 1976 Elected **Fellow, The Geological Society of America**
- 1967-1970 National Defense Education Act Fellowship

1967 U.S. Army ROTC Distinguished Military Graduate and American Legion Gold Award for Military Excellence (served 1967-1975 U.S. Army Reserve to Rank of Captain)

NATIONAL ADVISORY COMMITTEES, PANELS, STUDY GROUPS

National Research Council

2010-2011 Chair, Planning Committee on Research and Application Needs in Flood Hydrology Science, Water Science and Technology Board

2002-2011 Committee on Hydrologic Sciences, Water Science and Technology Board

1997-2000 Water Science and Technology Board, Committee on USGS Water Resources Research

1995-1996 Board on Radioactive Waste Management's Committee for Yucca Mountain Peer Review: Surface Characteristics, Preclosure Hydrology, and Erosion

1995-1996 Committee on Alluvial Fan Flooding, Water Science and Technology Board

1990-1992 Panel on Scientific Responsibility and the Conduct of Research, Committee on Science, Engineering, and Public Policy

1990-1992 Committee on Global Change, Working Group on "Solid Earth Processes"

1988-1992 Panel on Global Surficial Geofluxes, Geophysics Study Committee, Geophysics Research Board

1983-1996 United States National Committee for the International Union or Quaternary Research (INQUA); Vice-Chairman of Committee, 1987-1991; **Chairman of Committee, 1991-1996**

1986-1988 Committee on Glen Canyon Environmental Studies Review, Water Science and Technology Board

1985-1987 Committee on Techniques for Estimating Probabilities of Extreme Floods, Water Science and Technology Board

1983-1984 Committee on Natural Disasters, Member of Special Team to Conduct On-Site Study and Prepare Report on Tucson Flood of October, 1983 (Commission on Engineering and Technical Systems)

1981-1984 Committee on Earth Sciences, Space Science Board

1981 Geological Sciences Board Workshop, "Geology 2020, Forecasting the Next Chapter in the History of Mankind's Exploration and Exploitation of the Earth"

1978-1981 Panel on Scientific Basis of Water-Resource Management, Geophysics Research Board

National Science Foundation

1998-1999 GEO 2000, Hydrology Subcommittee Member

1993-1996 Hydrologic Sciences Working Group, Hydrologic Sciences Program

National Aeronautics and Space Administration

2004-2010 Gamma Ray Spectrometer Team (Adjunct Member), Mars Odyssey Mission

2000-2002 Solid Earth Sciences Working Group (Advisory to Associate Administrator for Earth Science)

1992-1994	Planetary Geology and Geophysics Management and Operations Working Group (Advisory to Planetary Geology and Geophysics Program)
1988-1989	Organizing Committee, Fourth International Conference on Mars
1985-1988	Member, Science Working Group, NASA Global Topographic Mapping Experiment
1984-1986	Mars Volatile Evolution and Climate History Working Group
1983-1994	Radar Investigation Group (RADIG) for the Magellan Space Mission to Venus
1982-1984	Planetary Geology and Geophysics Working Group (Advisory to Planetary Geology and Geophysics Program)
1982	Steering Committee for the new Research Initiative tentatively titled "Global Change: Impacts on Habitability"
1980-1982	VOIR Synthetic Aperture Radar Investigation Group
1978-1988	Chairman, Mars Channel Working Group, Planetary Geology and Geophysics Program
1977-1979	Orbital Imaging Team of the Viking Space Program (Guest Investigator)
1978	Leader, Comparative Planetary Geology Field Conference on the Channeled Scabland, Planetary Geology Program

Council for International Exchange of Scholars

1982-1985	Advisory Screening Committee for Fulbright Senior Scholar Awards in Geology. Chairman of Committee 1983-1985
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U.S. Department of Energy

1991-1992	Markers Panel, Waste Isolation Pilot Plant (WIPP), Sandia National Laboratory
1987	Peer Review Panel for Proposed Research on Calcite/Opaline Silica Deposits in Relation to the Nevada Nuclear Waste Storage Investigations
1986	Peer Review Panel for Hydraulics and Ecology of Disturbed Arid Landscapes, U.S. Department of Energy
1983-1989	Peer Review Panel for the Salt Host-Rock Portion of the U.S. National Waste Terminal Storage Program

U.S. Department of the Interior

1998-2000	Grand Canyon Monitoring and Research Center, Sediment Studies Peer-Review Panel
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Universities Space Research Association - Lunar and Planetary Institute

2004	Organizing Committee, Second International Conference on Early Mars
1986	Organizing Committee, Symposium on Mars: Evolution of its Climate and Atmosphere
1985	Mars Observer Proposal Review Panel
1983-1985	Planetary Geology and Geophysics Review Panel
1983-1985	Mars Data Analysis Program Review Panel

INTERNATIONAL COMMITTEES

International Association of Geomorphologists

- 2011-2013 Member of the Scientific Committee for the Paris 2013 International Conference on Geomorphology
- 2006-2012 **Chair, Planetary Geomorphology Working Group**
- 1993-1997 **Treasurer** of the Association
- 1989-1997 Member of the Executive Committee
- 1989-1993 Co-Chair, Program Committee, Third International Conference on Geomorphology; Member, Executive Committee, Third International Conference on Geomorphology
- 1985-1989 Advisory Associate of the Working Committee to Establish an International Association of Geomorphologists

International Union for Quaternary Research

- 2003-present Member of the Steering Committee, INQUA Terrestrial Processes Commission Focus Area on Hydrological Change and Climate
- 1999-2003 Vice-President, Commission on Global Continental Paleohydrology
- 1995-1999 **President, Commission on Global Continental Paleohydrology**
- 1995 **Head, U.S. National Delegation to XIV INQUA Congress, Berlin, Germany, August 3-10, 1995**
- 1991-1995 Vice-President, Commission on Global Continental Paleohydrology
- 1991 Vice-Chairman, U.S. National Delegation to XIII INQUA Congress, Beijing, China, August 2-9, 1991
- 1987-1991 Commission of the Holocene Working Group on Global Paleohydrology

International Union of the Geological Sciences

- 2012-2014 Organizing Committee for the International Union of Geological Sciences, International Commission on the History of Geological Sciences (INHIGEO) 2014 Symposium 39 on “Doing the History of the Earth Sciences: What, Why and How?” to be held at Pacific Grove California in July 2014.
- 2012-2014 Co-Chair, Program Committee for the International Union of Geological Sciences, International Commission on the History of Geological Sciences (INHIGEO) 2014 Symposium 39 on “Doing the History of the Earth Sciences: What, Why and How?” to be held at Pacific Grove California in July 2014.
- 2002-2014 Member of the International Commission on the History of Geological Sciences (INHIGEO), International Union of the Geological Sciences and International Union of the History and Philosophy of Science.

British Geomorphological Society

2013 President's Advisory Group

OTHER ADVISORY COMMITTEES

1993-Present Advisory Board, University of Arizona Press
2008-2010 Member of Steering Committee, "New Directions: Science, Humanities, Policy," a joint program of Colorado School of Mines and University of North Texas.
1992-1995 National Advisory Committee, Desert Research Institute, University of Nevada
1991-2003 Chair, NSF-Arizona Accelerator Facility for Radioisotope Analysis, Users' Oversight Committee
1991-2001 Advisory Committee, Udall Center for Studies of Public Policy, University of Arizona
1985-1989 National Advisory Board, Department of Geological Sciences, University of Colorado, Boulder

PROFESSIONAL SOCIETY AND EDITORIAL POSITIONS

The Geological Society of America

2014-2016 External Awards Committee
2008-2013 Ad Hoc Planning Committee for the 125th anniversary meeting
2011 Past Chair, History and Philosophy of Geology Division
2010 **Chair, History of Geology Division**
2010 Joint Technical Program Committee (2010 annual meeting)
2008 Member, Ad Hoc Committee on Innovative Science
2009 Vice-Chair, History of Geology Division
2009 Joint Technical Program Committee (2009 annual meeting)
2008 Second Vice-Chair, History of Geology Division
2006-2007 Ad Hoc Committee on Innovative Science at GSA Meetings
2004 Special Ad Hoc Panel on Geoscientists and Natural Hazards
2002-2005 Committee on the Young Scientist Award (Donath Medal)
2000 Ad Hoc Member, GSA Foundation Board of Trustees
1999 Past-President of the Society
1998 **President of the Society**
1997 Vice-President of the Society
1996-1999 Executive Committee and Long-Range Planning Committee
1996-1999 **Council Member**
1996-1997 Committee on Education
1994-1999 Member, Long-range Planning Committee, Quaternary Geology and Geomorphology Division
1993-1995 Member, Planetary Geology Division Gilbert Award Committee
1993 Chairman, Committee on the Penrose Medal
1993 Chairman, External Awards Committee
1990-1993 **Councilor**
1987 **Chair, Quaternary Geology and Geomorphology Division**
1986 **Chair, Planetary Geology Division**

1980-1982	Committee on Geology and Public Policy
1977-1978	Flood Hazards Panel, Committee on Environment and Public Policy
1976-1978	Panel of the Quaternary Geology and Geomorphology Division and Subcommittee to Select the Kirk Bryan Award Recipient
1976	Fellow of the Society
1975-1982	Editorial Board, <i>Geology</i>

American Association for the Advancement of Science

2009-2010	Councilor
2008-2009	Chair of the Section on Geology and Geography (second time)
2007-2008	Chair-Elect for the Section on Geology and Geography (Section E)
1993-1994	Councilor
1992-1993	Chair of the Section on Geology and Geography
1989	Fellow of the Association

American Geophysical Union

2009-2013	Member, Advisory Board for the AGU Natural Hazards Focus Group
2000-2001	Chair, Hydrology Section Award Committee
1998-2000	Member of the Hydrology Section Executive Committee Member of the Hydrology Section Award Committee
1998	Fellow of the Union
1996-1997	Member, Robert E. Horton Medal Committee
1989-1991	Associate Editor, <i>Journal of Geophysical Research</i> (Solid Earth and Planets)

EDITORIAL BOARD MEMBERSHIPS

2012-Present	Editorial Board for the journal <i>Geography and Environmental Hazards</i> (published by Ferdowsi University of Mashad, Iran)
2006-2010	Editorial Advisory Board of <i>Bollettino della Società Geologica Italiana</i>
2002-2013	Book Review Editor , <i>Earth Sciences History</i>
2002-2006	Editorial Board, <i>Canadian Geographer</i>
2000-2004	Editorial and Advisory Board, <i>Studia Quaternaria</i>
1993-Present	Editorial Board, <i>Zeitschrift für Geomorphologie</i>
1989-2000	Governing Board for the journal <i>Radiocarbon</i>
1989-1991	Associate Editor , <i>Journal of Geophysical Research</i> (Solid Earth and Planets)
1986-1992	Editorial Committee of The University of Arizona Press
1986-Present	Editorial Board, <i>Geomorphology</i> (Elsevier Science Publishers)
1985-1999	Advisory Board, <i>Springer Series in Physical Environment</i> (Springer-Verlag)
1975-1982	Editorial Board, <i>Geology</i>

PROFESSIONAL SOCIETY AFFILIATIONS

American Association for the Advancement of Science (Member since 1972; **Fellow** since 1989)
 American Astronomical Society, Division of Planetary Sciences (since 1991)
 American Geophysical Union (Member since 1968; **Fellow** since 1998)
 American Quaternary Association (Charter member since its inception in 1970)

Arizona-Nevada Academy of Science (Member since 1981; **Fellow** since 2000)
 British Society for Geomorphology (since 1981, **Inaugural Fellow** since 2013)
 Geological Society of America (Member since 1968; **Fellow** since 1976)
 History of Earth Sciences Society (since 1994)
 National Speleological Society (since 1965)
 Society of Sigma Xi (since election in 1967)

STUDENTS AND POSTDOCTORAL SCHOLARS

16 postdoctoral scholars; 67 completed graduate degrees/theses supervised (39 masters and 28 Ph.D.); external examiner for 14 international Ph.D. dissertations; presently supervising 2 Ph.D. students.

ABBREVIATED PUBLICATION LIST

Victor R. Baker

This following list only includes **scientific books/monographs (18)**, plus **chapters and articles (394)**. The Full CV (120 pages) lists more than 1000 published contributions, including more than **475 abstracts and short research reports**, nearly all of them associated with papers that were presented at professional meetings, conferences, and workshops; 34 extended technical reports; 46 encyclopedia articles; 39 published book reviews; plus guidebook contributions and various other writings, including popular works.

- 2014 Baker, V.R., 2014, Paleohydrology: IAHS Benchmark Papers in Hydrology, 9: Internat. Assoc. of Hydrological Sciences Press, Wallingford, U.K., 494 p. **(Book # 18)**
- Baker, V.R., 2014, Terrestrial analogs, planetary geology, and the nature of geological reasoning: Planetary and Space Science, v. 95, p. 5-10. **(Paper # 394)**
- Baker, V.R., in press, Uniformitarianism, earth system science, and geology: The Anthropocene. **(393)**
- Baker, V.R., Burr, D., Gulick, V., Hamilton, C., Komatsu, G., Luo, W. Rice, J.W., Jr., and Rodriguez, J.A.P., submitted, Fluvial geomorphology of earth-like planetary surfaces: A review: Geomorphology. **(392)**
- Baker, V.R., 2014, Planetary geomorphology: Some historical/analytical perspectives: Geomorphology, v. 95, p. 5-10. **(391)**
- Baker, V.R., 2014, Chapter 3 – Victor Baker, in Bellucci, F., Piartarien, A-V, and Stjernfelt, F., editors, Peirce: 5 Questions: Automatic Press/VIP, Copenhagen, Denmark, p. 19-35. **(390)**
- Baker, V.R., in press, Charles S. Peirce and the philosophy of geology, in Proceedings of the Charles S. Peirce Centennial Congress, Invigorating Philosophy for the 21st Century, Boston. **(389)**
- Baker, V.R., in press, Charles S. Peirce and the slaty cleavage controversy, in Proceedings of the Charles S. Peirce Centennial Congress, Invigorating Philosophy for the 21st Century, Boston. **(388)**
- Baker, V.R., in press, Paleofloods, in Richardson, D., editor, The International Encyclopedia of Geography: People, the Earth, Environment and Technology: John

- Wiley and Sons, Chichester, U.K. (387)
- Dohm, J.M., Miyamoto, H., Maruyama, S., **Baker, V.R.**, and 11 others, in press, Mars evolution, in Farien, A., editor, Mars, Evolution, Geology, and Exploration: Nova Science Publishers, Inc., Ne York. (386)
- Fairen, A.G., Stokes, C.R., Davies, N.S., Schulze-Makuch, D., Rodriguez, J.A.P., Davila, A.F., Uceda, E.R., Dohm, J.M., **Baker, V.R.**, Clifford, S.M., McKay, C.P., and Squyres, S.W., 2014, A cold hydrological system in Gale Crater, Mars: Planetary and Space Science, v. 93-94, p. 101-118. (385)
- Greenbaum, N., Harden, T.M., **Baker, V.R.**, Weisheit, J., Cline, M.L., Porat, N., Halevi, R., and Dohernwend, J., 2014, A 2000-year natural record of magnitudes and frequencies for the largest upper Colorado River floods near Moab, Utah: Water Resources Research, 50, doi:10.1002/2013WR014835. (384)
- Hayakawa, Y. S., Oguchi, T., Saito, H., Kobayashi, A., **Baker, V.R.**, Pelletier, J., McGuire, L., Komatsu, G. Goto, K., submitted, Geomorphic impacts of repeated tsunami waves in a coastal valley in northeastern Japan: Geophysical Research Letters. (383)
- Komatsu, G., Goto, K., **Baker, V.R.**, Oguchi, T., Yuichi S. Hayakawa, Y.S., Hitoshi Saito, H., Jon D. Pelletier, J.D., McGuire, L., and Iijima, Y., 2014, Effects of tsunami wave erosion on natural landscapes: Examples from the 2011 Tohoku-oki Tsunami, in Kontar, Y., Santiago-Fandiño, V., and Takahashi, T., editors, Tsunami Events and Lessons Learned; Environmental and Societal Significance. Springer, Heidelberg, p. 243-253. (382)
- Mischna, M.A., **Baker, V.R.**, Milliken, R., Richardson, M., and Lee, C., 2014, The role of obliquity, water vapor and trace gas greenhouses on the early martian climate, in Proceedings of the Fifth International Workshop on the Mars Atmosphere: Modelling and Observations: Oxford, U.K., January, 2014. (381)
- Rodriguez, A.P. et al., submitted, Evidence for large-scale Early and Middle Amazonian outflow channel activity in southern circum-Chryse, Mars: Icarus. (380)
- Rodriguez, A.P., Gulick, V., Platz, T., **Baker, V.R.**, and Fairen, A.G., submitted, Nature of outflow activity within Simud, Tiu, and Ares Vales, Mars: Planetary and Space Science. (379)
- Rodriguez, A.P., Gulick, V., **Baker, V.**, Platz, T., Farien, A., Miyamoto, H., Kargel, J., in press, Evidence for Middle Amazonian catastrophic flooding and glaciation on Mars: Icarus. (378)
- Rodriguez, A. P. Gulick, V., Platz, T., Weitz, C.M., Baker, V., and 7 others, submitted Role of pseudo-karstic collapse and groundwater discharges in the formation of Noctis Labyrinthus, Mars. Icarus. (377)
- Rodriguez, A. P., Leonard, G.J., Platz, T., Tanaka, K.L., Kargel, J.S., Fairen, A.G., Gulick, V.C., Baker, V.R., Glines, N., Miyamoto, H., Yan, J., and Oguma, M., in press, Evidence for Late Amazonian zonal shrinkage of the Martian south polar plateau: Icarus. (376)
- Rodriguez, A. P., Kargel, J.S., Gulick, V. Baker, V., Fairen, A.G., Santiago, R. L., Hernandez, M.Z., Platz, T., Davila, A.F., Miyamoto, submitted, Formation and excavation of a Late Noachian subsurface hydrosphere in southern circum-Chryse, Mars: Nature Geosciences.
- Youberg, A., **Baker, V. R.**, and Pearthree, P. A., submitted, Basin physiographic and soil

- burn severity factors influencing the generation of post-wildfire debris flows: Natural Hazards. (374)
- 2013 Baker, V.R. (Editor), 2013, Rethinking the Fabric of Geology: The Geological Society of America Special Paper 502, Boulder, Colorado, 168 p. (Book # 17)
- Baker, V.R., 2013, Sinuous rivers: Proceedings of the National Academy of Sciences of the United States, v. 110, no. 21, p. 8321-8322. (373)
- Baker, V.R., 2013, Global late Quaternary fluvial paleohydrology with special emphasis paleofloods and megafloods, in Shroder, J. (Editor in Chief), Wohl, E.E. (Ed.), Treatise on Geomorphology, Vol. 9, Fluvial Geomorphology: Academic Press, San Diego, p. 511-527. (372)
- Baker, V.R., 2013, Epilogue: Skepticism versus fallibilism for achieving reliable science in Kargel, J.S., Leonard, G.J., Bishop, M.P., Kaab, A., and Raup, B.H., editors, Global Land Ice Measurements from Space, Springer Praxis Books, p. 841-845. (371)
- Baker, V.R., 2013, Interactive comment on “Darwinian hydrology: can the methodology Charles Darwin pioneered help the hydrologic sciences” by C. J. Harman and P.A. Troch: Hydrology and Earth System Sciences Discussions (comment RC C3324), v. 10, p. C1-C2. (370)
- Baker, V.R., 2013, Rethinking the fabric of geology: An introduction, in Baker, V.R., editor, Rethinking the Fabric of Geology: Geological Society of America Special Paper 502, p. v – ix. (369)
- Burr, D.M., Perron, J.T., Lamb, M.B., Irwin, R.P., III, Collins, G.C., Howard, A.D., Sklar, L.S., Moore, J. M., Ádámkovics, M., **Baker, V.R.**, Drummond, S.A., and Black, B.A., 2013, Fluvial features on Titan: Insights from Morphology and Modeling: Geological Society of America Bulletin, v. 124, p. 299-321. doi: 10.1130/B30612.1
- Mischna, M.A., **Baker, V.R.**, Milliken, R., Richardson, M., and Lee, C., 2013, Effects of Obliquity and Water Vapor/Trace Gas Greenhouses in the Early Martian Climate: Journal of Geophysical Research: Planets, DOI: 10.1002/jgre.20054. (367)
- 2012 Fink, W., Tuller, M., Jacobs, A., Kulkarni, R., Tarbell, M.A., Furfaro, R., and **Baker, V.R.**, 2012, Robotic lander test bed for autonomous surface and subsurface exploration of Titan Lakes, in IEEE Aerospace Conference Proceedings, Paper #1285 Big Sky, Montana. (366)
- Rodriguez, J. A. P., Bourke, M., Tanaka, K., Miyamoto, H., **Baker, V.R.**, and six others, 2012, Infiltration of Martian outflow channel floodwaters into lowland cavernous systems: Geophysical Research Letters, v. 39, DOI: 10.1029/2012GL053225.
- 2011 Baker, V.R., 2011, Future scope of geomorphology, in Gregory, K.J., and A. S. Goudie, editors, Handbook of Geomorphology: Sage Publications, London, p. 574-576. (364)
- Baker, V.R., 2011, Global planetary change and catastrophic Earth-surface evolution: Implications for modern geomorphological research: Geographica Polonica, v. 84, Special Issue Part 2, p. 5-14. (363)
- Dohm, J.M., and 39 others, including **Baker, V.R.**, 2011, An Inventory of Potentially Habitable Environments on Mars: Geological and Biological Perspectives, in Garry, W.B. and Bleacher, J.E., editors, Analogs for Planetary Exploration: Geological Society of America Special Paper 483, Chapter 21. p. 317-347. (362)
- Fairen, A., Dohm, J.M., and **Baker, V.R.**, and 10 others, 2011, Meteorites on

- Meridiani Planum provide evidence for significant amounts of surface and near-surface water on Mars: *Meteoritics and Planetary Science*, v. 46, no. 12, p. 1832-1841. (doi: 10.1111/j.1945-5100.2011.01297) (361)
- Fink, W. Tarbell, M.S., Jobling, F.M., Furfaro, R., Powers, L., Kargel, J., **Baker, V.R.**, and Lunine, J., 2011, Robotic test bed for autonomous surface exploration of Titan, and other planetary bodies: *in* IEEE Aerospace Conference Proceedings, Paper #1770, Big Sky, Montana (360)
- Jones, A.S., McEwen, A.S., Tornabene, L.L., Berman, D.C., **Baker, V.R.**, and Melosh, H.J., 2011, A geomorphic analysis of Hale crater, Mars: the effects of impact into ice-rich crust: *Icarus*, v. 211, p. 259-272. (359)
- Komatsu, G., Ori, G.G., Cardinale, M., Dohm, J.M., **Baker, V.R.**, Vaz, D.A., Ishimaru, R., Namiki, N., and Matsui, T., 2011, Roles of methane and carbon dioxide in geological processes on Mars: *Planetary and Space Science*, v. 59, p. 169-181. (358)
- National Research Council Committee on Hydrologic Science, National Research Council (V.R. Baker, co-chair, 2011, Committee on Research and Application Needs in Flood Hydrology Science) *Global Change and Extreme Hydrology Events: Testing Conventional Wisdom*: The National Academy Press, Washington, D.C., 34 p. (357)
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