

CURRICULUM VITAE
Abbreviated Version (The Complete CV is 118 pages)
July 2012

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**; University of Arizona

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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, University of Arizona
1996-2004 **Head, Department of Hydrology and Water Resources**, University of Arizona
2002- Present Adjunct Professor, Centre for Geoscience and Engineering, Anna University, Chennai (Madras), India
1988-Present **Regents' Professor, University of Arizona**
1994-1995 Visiting Fellow, Udall Center for Studies in Public Policy, 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, University of Arizona
1981-Present Professor of Geosciences, University of Arizona
1976-1981 Associate Professor to Professor, Department of Geological Sciences, University of Texas at Austin
1979-1980 Visiting Fellow, Australian National University (Fulbright-Hays Senior

- Research Scholar)
- 1971-1976 Assistant Professor, Department of Geological Sciences, University of Texas at Austin
- 1973 Research Scientist, Bureau of Economic Geology, 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

- 2012 **Inaugural International Lecturer**, The Geological Society of America
- 2011 John T. Loucks Distinguished Lecturer, Western South Dakota Hydrology Conference, Rapid City, South Dakota
Sensors Best Paper Awards, 3rd 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 (I was a team member). 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 Autonomous Sciencecraft Experiment,” September 6, 2005.
- 2003 Barringer Lecturer, University of Arkansas, Fayetteville, Arkansas
- 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)
- 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, Geo-

- physics 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

- 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

- 2002-Present 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.

OTHER ADVISORY COMMITTEES

- 1993-Present Advisory Board, University of Arizona Press
- 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

- 2009-2011 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 Vice-Chair, History of Geology Division
- 2009 Joint Technical Program Committee (2009 annual meeting)
- 2008 Second Vice-Chair, History of Geology Division
- 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, *Geology*

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

2010-2012 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, *Journal of Geophysical Research* (Solid Earth and Planets)

EDITORIAL BOARD MEMBERSHIPS

2007-Present Editorial Advisory Board of *Bollettino della Società Geologica Italiana*
 2002-Present **Book Review Editor**, *Earth Sciences History*
 2002-2006 Editorial Board, *Canadian Geographer*
 2000-Present Editorial and Advisory Board, *Studia Quaternaria*
 1993-Present Editorial Board, *Zeitschrift für Geomorphologie*
 1989-2000 Governing Board for the journal *Radiocarbon*
 1989-1991 **Associate Editor**, *Journal of Geophysical Research* (Solid Earth and Planets)
 1986-1992 Editorial Committee of The University of Arizona Press
 1986-Present Editorial Board, *Geomorphology* (Elsevier Science Publishers)
 1985-1999 Advisory Board, *Springer Series in Physical Environment* (Springer-Verlag)
 1975-1982 Editorial Board, *Geology*

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 Arts, Sciences, and Technology Academy (**Founding Fellow** since its inception in 2004)
Arizona-Nevada Academy of Science (Member since 1981; **Fellow** since 2000)
British Society for Geomorphology (since 1981)
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

15 postdoctoral scholars; 66 completed graduate degrees/theses supervised (39 masters and 27 Ph.D.); external examiner for 13 international Ph.D. dissertations; presently supervising one M.S. and 2 Ph.D. students.

ABBREVIATED PUBLICATION LIST Victor R. Baker

This list only includes **scientific books/monographs (17)**, plus **chapters and journal articles (362)**. The Full CV (118 pages) lists more than 1000 published contributions, including **460 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; 41 encyclopedia articles; 36 published book reviews; plus various guidebook contributions and other writings, including popular works.

- 2012 Baker, V.R. (Editor), in preparation, Paleohydrology: Benchmark Papers in Hydrology: International Assoc. of Hydrological Sciences Press, Wallingford, U.K. (**Book # 17**)
- Baker, V.R., in press, Global late Quaternary fluvial paleohydrology with special emphasis on paleofloods and megafloods, in Wohl, E.E., editor, Treatise on Geomorphology, Vol. 1, Fluvial Geomorphology: Elsevier, Amsterdam. (**369**)
- Baker, V.R., in press, Rock Star: J Harlen Bretz: Outrageous Hypothesizer: GSA Today.
- 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., Ádámkóvics, M., **Baker, V.R.**, Drummond, S.A., and Black, B.A., in press, Fluvial features on Titan: Insights from Morphology and Modeling: Geological Society of America Bulletin.
- Dohm, J.M., Miyamoto, H., Maruyama, S., **Baker, V.R.**, and 11 others, submitted, Mars evolution, in Farién, A., editor, Mars Science.
- 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. (**365**)

- Greenbaum, N., Harden, T., **Baker, V.R.**, Weisheit, J., Cline, M.L., Halevi, R., and Dohrenwend, J.C., submitted, The Paleoflood Record of the Upper Colorado River near Moab, Utah: Water Resources Research. (364)
- 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., submitted, Effects of tsunami wave erosion on natural landscapes: Examples from the 2011 Tohoku-oki Tsunami: Geomorphology. (363)
- Michna, M.A., Baker, V.R., Milliken, R., Richardson, M., and Lee, C., submitted, Obliquity-controlled water vapor/trace gas feedback in the Martian greenhouse: Journal of Geophysical Research. (362)
- Rodriguez, J. A. P., Bourke, M., Tanaka, K., Miyamoto, H., Baker, V.R., and six others, submitted, Infiltration of Martian outflow channel floodwaters into lowland cavernous systems: Geophysical Research Letters. (361)
- Rodriguez, J. A. P., Gulick, V., Baker, V., and seven others, submitted, Nature and Characteristics of late outflow channel activity within southern Simud Vallis, Mars” Nature. (360)
- 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. (359)
- 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. (358)
- 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. (357)
- 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) (356)
- 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 (355)
- 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. (354)
- 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. (353)
- Pelletier, J.D., and **Baker, V.R.**, 2011, The role of weathering in the formation of bedrock valleys on Earth and Mars: a numerical modeling study: Journal of Geophysical Research, 116, E11007, doi:10.1029/2011JE003 (352)
- Rodriguez, J. A. P., Kargel, J.S., Tanaka, K.L., Crown, D.A., Berman, D.C., Fairen, A.G., **Baker, V.R.**, Furfaro, R., Candelaria, P., and Sasaki, S., 2011, Secondary chaotic

- terrain formation in the higher outflow channels of southern circum-Chryse, Mars: *Icarus*, v. 213, p. 150-194. (351)
- 2010 Alho, P., **Baker, V.R.**, and Smith, L.N., 2010, Paleohydraulic Reconstruction of the largest Glacial Lake Missoula drainings: *Quaternary Science Reviews*, v. 29, p. 3067-3078. (350)
- Baker, V.R., 2010, Channeled Scablands: A megaflood landscape, in Migon, P., editor, *Geomorphological Landscapes of the World*: Springer, Dordrecht, p. 21-28. (349)
- Baker, V.R., 2010, Interactive comment on “Reconstructing the tropical storm Ketsana flood event in Marikina River, Philippines by C.C. Abon et al.: *Hydrology and Earth System Sciences Discussions*, v. 7, p. C1-C4. (348)
- Baker, V.R., 2010, Foreword, in Cabrol, N. A., and Grin, E. A., editors, *Lakes on Mars*: Elsevier Science, Amsterdam, p. xv-xx. (347)
- Brown, K. McIntosh, J.C., **Baker, V.R.**, and Gosch, D., 2010, Isotopically-depleted late Pleistocene groundwater in Columbia River Basalt aquifers: Evidence for recharge of Glacial Lake Missoula floodwaters? *Geophysical Research Letters*, v. 37, L21402, doi:10.1029/2010GL044992 (346)
- Harden, T., Macklin, M.G., and **Baker, V.R.**, 2010, Holocene flood histories in southwestern USA: *Earth-Surface Processes and Landforms*, v. 35, p. 707-716. (345)
- 2009 Burr, D.M., Caring, P.A., and **Baker, V.R.**, editors, 2009, *Megaflooding on Earth and Mars*: Cambridge University Press, Cambridge, 319 p. (Book # 16)
- Baker, V.R., 2009, The Channeled Scabland—A retrospective: *Annual Reviews of Earth and Planetary Sciences*, v. 37, p. 6.1-6.19. (344)
- Baker, V.R., 2009, Overview of Megaflooding: Earth and Mars, *in* Burr, D.M., Carling, P.A., and Baker, V.R., editors, *Megaflooding on Earth and Mars*: Cambridge University Press, Cambridge, p. 1-12. (343)
- Baker, V.R., 2009, Megafloods and global paleoenvironmental change on Mars and Earth, *in* Chapman, M.G., and Kesthelyi, L., editors, *Preservation of Random Mega-scale Events on Mars and Earth: Influence on Geologic History*: Geological Society of America Special Paper 453. p. 25-36. (342)
- Baker, V.R., 2009, Charles S. Peirce and the “Light of Nature,” *in* Rosenberg, G.D., editor, *Scientific Revolution in Geology from the Renaissance to the Enlightenment*: Geological Society of America Memoir 203, p. 259-266. (341)
- Baker, V.R., 2009, Channeled Scabland morphology, *in* Burr, D.M., Carling, P.A., and Baker, V.R., editors, *Megaflooding on Earth and Mars*: Cambridge University Press, Cambridge, p. 65-77. (340)
- Baker, V.R., 2009, Late Quaternary megafloods, *in* Gornitz, V., editor, *Encyclopedia of Paleoclimatology and Ancient Environments*: Springer, Dordrecht, p. 504-507. (339)
- Baker, V.R., 2009, Glacial Megalakes, *in* Gornitz, V., editor, *Encyclopedia of Paleoclimatology and Ancient Environments*: Springer, Dordrecht, p. 380-382. (338)
- Banks, M. E., Lang, N. P., McEwen, A. S., Kargel, J. S., **Baker, V. R.**, Strom, R. G., Grant, J.A., Pelletier, J. D., and the HiRISE Team, 2009, An Analysis of the Sinuous Ridges in the Southern Argyre Planitia, Mars using HiRISE and CTX Images and MOLA Data, *Journal of Geophysical Research*, v. 114, E09003, doi:10.1029/2008JE003244. (337)

- Coleman, N.M., and **Baker, V.R.**, 2009, Surface morphology and origin of outflow channels in the Valles Marineris, Mars, *in* Burr, D.M., Baker, V.R., and Carling, P.A., editors, *Magaflooding on Earth and Mars*: Cambridge University Press, Cambridge. p. 172-193. (336)
- Dohm, J.M., Anderson, R.C., and 13 others (including **Baker, V.R.**), 2009, Claritas Rise, Mars: Pre-Tharsis Magmatism? *Journal of Volcanology and Geothermal Research* (special issue), v. 185, p. 139-156. (335)
- Dohm, J.M., **Baker, V. R.**, and 19 others, 2009, GRS Evidence and the Possibility of Paleoceans on Mars: *Planetary and Space Science*, v. 57, p. 664-684. (334)
- Dohm, J.M., Williams, J.-P., and 15 others (including **Baker, V.R.**), 2009, New evidence for a magmatic influence on the origin of Valles Marineris, Mars: *Journal of Volcanology and Geothermal Research* (special issue), v. 185, p. 12-27. (333)
- Keszthelyi, L.P., **Baker, V.R.**, Jaeger, W.L., Gaylord, D.R., Bjornstad, B.N., Greenbaum, N., Self, S., Thordarson, Th., Porat, N., and Zreda, M.G., 2009, Floods of water and lava in the Columbia River Basin: Analogs for Mars, *in* O'Connor, J.E., Dorsey, R.J., and Madin, I.P., eds., *Volcanoes to Vineyards: Geologic Field Trips through the Dynamic Landscape of the Pacific Northwest*: Geological Society of America Field Guide 15, p. 845-874. (332)
- Komatsu, G., Arzhannikov, S.G., Gillespie, A.R., Burke, R.M., Miyamoto, H., and **Baker, V.R.**, 2009, Quaternary paleolake formation and cataclysmic flooding along the upper Yenisei River: *Geomorphology*, v. 104, p. 143-164. (331)
- 2008 Maruyama, S., **Baker, V.R.**, and Dohm, J.M., 2008, *Life and Land of Mars, 4.6 Billion Years*: Koudansha, Tokyo, 256 p. (In Japanese) (Book # 15)
- Baker, V.R., 2008, The Spokane Flood debates: Historical background and philosophical perspective, *in* Grapes, R., Oldroyd, D., and Grigelis, A., editors, *History of Geomorphology and Quaternary Geology*: Geological Society of London Special Publication 301, p. 33-50. (330)
- Baker, V.R., 2008, Paleoflood hydrology: origin, progress, prospects: *Geomorphology*, v. 101, p. 1-13. (329)
- Baker, V.R., 2008, Planetary landscape systems: *Earth Surface Processes and Landforms*, v. 33, p. 1341-1353. (328)
- Baker, V.R., 2008, Bretz, J Harlen, *in* Koertge, N., editor, *New Dictionary of Scientific Biography*: Thomas Gale, Detroit, p. 393-397. (327)
- Baker, V.R., 2008, Bagnold, Ralph Alger, *in* Koertge, N., editor, *New Dictionary of Scientific Biography*: Thomas Gale, Detroit, p. 154-157. (326)
- Banks, M. E., McEwen, A. S., Kargel, J. S., **Baker, V. R.**, Strom, R. G., Mellon, M. T., Pelletier, J. D., Gulick, V. C., Keszthelyi, L., Herkenhoff, K. E., Jaeger, W. L., and the HiRISE Team, 2008, Glacial and Periglacial Morphologies in the Western Charitum Montes, Argyre Basin Rim, *Journal of Geophysical Research*, 113, E12015, doi:10.1029/2007JE002994. (325)
- Dohm, J.M., Anderson, R.C., Barlow, N.G., Miyamoto, H., Davies, A. G., Taylor, G.J. **Baker, V.R.**, and 15 others, 2008, Recent Geological and Hydrological Activity on Mars: The Tharsis/Elysium Corridor: *Planetary and Space Science*, v. 56, p. 985-1013.
- Fink, W., Datta, A., Dohm, J.M., Tarbell, M.S., Jobling, F.M., Furgaro, R., Kargel, J.,

- Schulze-Makuch, D., and **Baker, V.R.**, 2008, Automated Global Feature Analyzer (AGFA) – A Driver for Tier-Scalable Reconnaissance: *in* IEEE Aerospace Conference Proceedings, Paper #1273. DOI: 10.1109/AERO.2008.4526422 (323)
- Furfaro, R. Dohm, J.M., Fink, W., Kargel, J., Schulze-Makuch, D., Fairen, A.G., Palermo-Rodriguez, A., **Baker, V.R.**, Ferre, P.T., Hare, T.M., Tarbell, M., Miyamoto, H., and Komatsu, G., 2008, The search for life beyond Earth through fuzzy expert systems: *Planetary and Space Science*, v. 56, p. 448-472. (322)
- 2007 Baker, V.R., 2007, Flood hazard science, policy and values: A pragmatist stance: *Technology in Society*, v. 29, p. 161-168. (321)
- Baker, V.R., 2007, Water cycling on Mars: *Nature*, v. 446, p. 150-151. (320)
- Baker, V.R., 2007, Chapter 5: Greatest floods—largest rivers, *in* Gupta, A., editor, *Large Rivers: Geomorphology and Management*: Wiley, N.Y., p. 65-74. (319)
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