**Binghamton Geomorphology Symposia: Listed by volume, title of each paper, authors, and pages. If published as a book, the ISBN number is listed. Once Elsevier began publishing the volume as an issue of Geomorphology, the volume, pages, and date are included.**

**Binghamton Geomorphology Symposium 1 – Environmental Geomorphology (Donald R. Coates, Ed.) SUNY-Binghamton, New York, 1970.**

1. Stream Regimen and Man’s Manipulation; **Robert V. Ruhe**; pp. 9-23.
2. Debris Avalanches – A Geomorphic Hazard; **Garnett P. Williams** and **Harold P. Guy**; pp. 25-46.
3. Land Surface Form in Flood Hydrology**; Brian M. Reich**; pp. 49-68.
4. Interrelationships of Forest, Soils, and Terrane in Watershed Planning; **Peter E. Black**; pp. 71-78.
5. Geomorphology and Decision-Making in Water Resources Engineering; **Joseph H. Butler**; 81-89.
6. Evaluating Riverscapes; **Marie Morisawa**; pp. 91-106.
7. Forms and Cycles in Beach Erosion and Deposition; **Warren E. Yasso**; pp. 109-137.
8. Natural and Man-Induced Disturbance of Permafrost Terrane**; Richard K. Haugen** and **Jerry Brown;** pp. 139-149.
9. Impact of Highways on the Hydrogeologic Environment**; Richard R. Parizek**; pp, 151-199.
10. Environmental Terrane Studies in the East St. Louis Area, Illinois; **Paul B. DuMontelle**, **Alan M. Jacobs**, and **Robert E. Bergstrom**; pp. 201-212.
11. Society and Geomorphology; **Rhodes W. Fairbridge**; pp. 215-220.
12. Legal and Environmental Case Studies in Applied Geomorphology; **Donald R. Coates**; pp.223-242.
13. Education and Environmental Geomorphology Problems; **John H. Moss;** pp. 245-247.
14. The Environment, Professionalism, and Geomorphology; **Leo A. Heindl**; pp. 249-250.

(Published by Publications in Geomorphology, SUNY Binghamton, NY, 1971, Library of Congress Catalog Number 74-171727)

**Binghamton Geomorphology Symposium 2 – Quantitative Geomorphology: Some Aspects and Application (Marie Morisawa, Ed.) SUNY - Binghamton, New York, 1971.**

1. Threads of Inquiry into Quantitative Geomorphology; **Neil E. Salisbury**; pp. 9-60.
2. Problems of Interpretation of Simulation Models of Geologic Processes; **Alan D. Howard**; pp. 61-82.
3. The Two-Dimensional Spatial Organization of Clear Creek and Old Man Creek, Iowa; **Michael Woldenberg**; pp. 83-106.
4. A Quantitative Geomorphology Field Course; **William B. Bull**; pp. 107-117.
5. Mass Movement Studies Near Madison, Wisconsin; **Robert F. Black** and **Thomas D. Hamilton;** pp. 121-179.
6. The Surficial Fabric of Rockfall Talus; **Eileen R. McSaveney**; pp. 181-197.
7. Computational Methods for Analysis for Beach and Wave Dynamics; **Joseph M. Colonell** and **Victor Goldsmith**; pp. 199-222.
8. Quantitative Analysis of the Factors Controlling the Distribution of Corrie Glaciers in Okoa Bay, East Baffin Island (with particular reference to global radiation); **J.T. Andrews**; pp. 223-241.
9. Hydrograph Analysis and Some Related Geomorphic Variables; **William F. Rogers**; pp.245-257.
10. Predicting Time of Travel in Stream Systems; **John B. Stall**; pp. 261-271.
11. Hydrogeomorphology of Susquehanna and Delaware Basins; **Donald R. Coates**; pp. 273-306.
12. Quantitative Geomorphology for Test Facility Evaluation at Yuma Proving Ground; **John A. Millett;** pp. 307-313.

(Published by Publications in Geomorphology, SUNY-Binghamton, NY, 1971)

**Binghamton Geomorphology Symposium 3 – Coastal Geomorphology (Donald R. Coates, Ed.) SUNY - Binghamton, New York, 1972.**

1. The Investigation of Form and Processes in the Coastal Zone; **Miles O. Hayes**, **Edward H. Owens,** **Dennis Hubbard**, and **Ralph W. Ab**ele; pp. 11-41.
2. The Littoral Power Gradient and Shoreline Changes; **James P. May** and **William F. Tanner**; pp. 43-60.
3. Probable Causes of Shoreline Recession and Advance on the South Shore of Eastern Long Island; **C. Larry McCormick**; pp. 61-71.
4. Dynamics of Beach Accretion in South Lincolnshire, England; **Cuchlaine A.M. King;** pp. 73-98.
5. Sand Bars Along Low Energy Beaches. Part 1. Multiple Parallel Sand Bars of Southeastern Cape Cod Bay; **Harold D. Nilsson**; pp. 99-102. Sand Bars Along Low Energy Beaches. Part 2. Transverse Bars; **Alan William Niedoroda**; pp. 103-113.
6. Depositional Structures and Processes in the Mouths of Small Coastal Streams, Southwestern Oregon; **H. Edward Clifton**, **R. Lawrence Phillips**, and **Ralph E. Hunter**; pp. 115-140.
7. Beach Processes in an Arctic Environment; **S. Brian McCann**; pp. 141-155.
8. Bathymetric Projected Profiles and the Origin of Barrier Islands – Johnson’s Shoreline of Emergence, Revisited; **John J. Fisher**; pp. 161-179.
9. Barrier and Lagoon Systems Along the Zululand Coast, South Africa; **Antony R. Orme**; pp. 181-217.
10. Effects of Erosion on Barrier-Island Morphology Fire Island, New York; **Kenneth Ruzyla**; pp. 218-237.
11. Comparison of Ecological and Geomorphic Interactions Between Altered and Unaltered Barrier Island Systems in North Carolina; **Paul J. Godfrey** and **Melinda M. Godfrey**; pp. 239-258.
12. Barrier Islands: Natural and Controlled; **Robert Dolan**; pp. 263-278.
13. Beach Profile Changes on Western Long Island; **Craig H. Everts**; pp. 279-301.
14. Coastal Processes and Prehistoric Maritime Cultures; **Maurice L. Schwartz** and **Garland F. Grabert**; pp. 303-320.
15. Morphology and Vertical Sedimentary Sequence Models in Holocene Transgressive Barrier Systems; **John C. Kraft**, **Robert B. Bigg**s, and **Susan D. Halsey**; pp. 321-354.
16. Coastal Dunes of Younger Bermuda; **Len Vacher**; pp. 355-391.

(Published by Publications in Geomorphology, SUNY-Binghamton, NY, 1973, Library of Congress Card Catalog Number 72-619709)

**Binghamton Geomorphology Symposium 4 – Fluvial Geomorphology (Marie Morisawa, Ed.) SUNY - Binghamton, New York, 1973.**

1. Predicting Coarse Sediment Transport: The Hjulstrom Curve Revisited; **Irwin D. Novak**; pp. 13-25.
2. The Random Model in Fluvial Geomorphology; **J. S. Smart**; pp. 27-49.
3. Drainage Adjustment in the Appalachians; **John T. Hack**; pp. 51-69.
4. Fluvial Geomorphology in Karst Terrain; **J.L. Bassett** and **R.V. Ruhe**; pp. 74-89.
5. Magnitude-Frequency Analysis and Channel Morphometry; **G.H. Dury**; pp. 91-121.
6. Erosional Forms and Processes for the Catastrophic Pleistocene Missoula Floods in Eastern Washington; **Victor R. Baker**; pp. 123-148.
7. Reflections on the Origin of Source Small-Scale Longitudinal Streambed Scours; **Iaakov Karcz**; pp. 149-173.
8. Meandering Pattern of the White River in Indiana—An Analysis; **James Brice**; pp. 178-200.
9. Aggradation of the Alexandra-North Saskatchewan River, Banff Park, Alberta; **D.G. Smith**; pp. 201-219.
10. Knik and Matanuska Rivers, Alaska: A Contrast in Braiding; R**.K. Fahnestock** and **W.C. Bradley**; pp. 220-250.
11. Bedforms and Fluvial Processes in Alluvial Stream Channels: Selected Observations; **E.A. Keller** and **W.N. Melhorn**; pp. 253-283.
12. Unit Stream Power in Dynamic Stream Systems; **Chih Ted Yang** and **John B. Stall**; pp. 285-297.
13. Geomorphic Thresholds and Complex Response of Drainage Systems; **S. A. Schumm**; pp. 299-310.
14. Northwest Adirondack Streams – A Student Introduction; **James Carl;** pp. 312 (Abstract)
15. Man and Rivers: Student Projects; **Marie Morisawa**; pp. 313 (Abstract)
16. Undergraduate Student Activities in fluvial Geomorphology; **James Street**; pp. 314 (Abstract)

(Published by Publications in Geomorphology, SUNY-Binghamton, NY, 1973)

**Binghamton Geomorphology Symposium 5 - Glacial Geomorphology (Donald R. Coates, Ed.) Suny - Binghamton, New York, 1974.**

1. The Evolution of the Rocky Mountain Glacial Model; **Brainerd Mears, Jr.**; pp. 11-40.
2. Processes and Patterns of Glacial Erosion; **Geoffrey S. Boulton**; pp. 41-87.
3. A Glacial Process-Form Model; **Lee Clayton** and **Stephen R. Moran**; pp. 89-119.
4. The Morphologic Sequence Concept and Deglaciation of Southern New England; **Carl Koteff**; pp. 121-144.
5. Morphometry in Glacial Geomorphology; **Cuchlaine A.M. King**; pp. 147-162.
6. Rates of Formation of Glacial Features in Glacier Bay, Alaska; **Richard P. Goldthwait**; pp. 163-185.
7. Origins of Drumlins; **Ernest H. Muller**; pp. 187-204.
8. Reappraisal of the Glaciated Appalachian Plateau; **Donald R. Coates**; pp. 205-243.
9. Ice-Wedge Polygons of Northern Alaska; **Robert F. Black**; pp. 247-275.
10. History of Glacial Lake Wawaring, Southeastern New York; **William B. Heroy**; pp. 277-292.
11. The Relation of River Terrace Formation to Glaciation in the Shoshone River Basin, Western Wyoming**; John H. Moss**; pp. 293-314.
12. Glacial Grooves and Periglacial Features in the Sahara Ordovician; **Rhodes W. Fairbridge**; pp. 315-327.
13. Buried Glacial Geomorphology; **George W. White**; pp. 331-349.
14. Glacial Landforms and Civil Engineering; **Robert F. Legget**; pp. 351-374.
15. Glacial Geology in Rural Land Use Planning and Zoning; **Robert G. LaFleur**; pp. 375-388.

(Published by Publications in Geomorphology, SUNY-Binghamton, NY, 1074, Library of Congress Catalog Card Number 74-620022)

**Binghamton Geomorphology Symposium 6 – Theories of Landform Development (W.N. Melhorn and R. C. Flemal, Eds.) SUNY - Binghamton, New York, 1975.**

1. Theories of Landscape Development: A Perspective; **Charles G. Higgins**; pp. 1-28.
2. Evolution of Appalachian Topography; **Sheldon Judson**; pp. 29-44.
3. The Penckian Model – With Modifications; **Howard A. Meyerhoff**; pp. 46-68.
4. Episodic Erosion: A Modification of the Geomorphic Cycle; **S.A. Schumm**, pp. 69-86.
5. Dynamic Equilibrium and Landscape Evolution; **John T. Hack**; pp. 87-102
6. The Hypothesis of Unequal Activity; **C. H. Crickmay**; pp. 103-110.
7. Landforms that do not Tend Toward a Steady State; **William B. Bull**; pp. 111-128.
8. The Concept of Climatic Geomorphology; **Louis C. Peltier**; pp. 129-144.
9. The Compatibility of Structure, Lithology and Geomorphic Models; **Robert C. Palmquist;** pp. 145-168.
10. Concept of Graded Streams; **James C. Knox**; pp. 169-198.
11. Tectonics and Geomorphic Models; **Marie Morisawa**; pp. 199-216.
12. Theories of Development of Karst Topography; **Richard L. Powell**; pp. 217-242.
13. The Case for Episodic, Continental Scale Erosion Surfaces; **Wilton N. Melhorn** and **Dorlanddra E. Edgar**; pp. 243-270.
14. The Mind of Grove Karl Gilbert; **Stephen Pyne**; pp. 22-298.
15. How Many Peneplains can Sit on the Top of a Mountain; **Sherwood D. Tuttle**; pp. 299-306.

(Published by Publications in Geomorphology, SUNY-Binghamton, 1975

**Binghamton Geomorphology Symposium 7 – Geomorphology and Engineering (Donald R. Coates, ed.) SUNY - Binghamton, New York, 1976. .**

1. Geomorphic Engineering; **Donald R. Coates**; pp. 3-22.
2. Land Use Contributions of Soil Survey with Geomorphology and Engineering; **Gerald W. Olson**; pp. 23-41.
3. Mapping of Mountain Soils West of Denver, Colorado, for Landuse Planning; Paul W. Schmidt and **Kenneth L. Pierce**; pp. 43-54.
4. Preconstruction Terrain Evaluation for the Trans-Alaska Pipeline Project; **Raymond A. Krieg** and **Richard D. Reger**; pp. 55-76.
5. The Mississippi River Flood of 1973; **Charles C. Noble**; pp. 79-98.
6. Geologic Control of Sand Boils Along Mississippi River Levees; **Charles R. Kolb**; pp. 99-113.
7. Channelization: Environmental, Geomorphic, and Engineering Aspects; **Edward A. Keller**; pp. 115-140.
8. Drainage Basin Characteristics Applied to Hydraulic Design and Water Resources Management; **John F. Osborn**; pp. 141-171.
9. Kinzua Dam and the Glacial Foreland; **Shailer S. Philbrick**; pp. 175-197.
10. Timber Harvesting, Mass Erosion, and Steepland Forest Geomorphology in the Pacific Northwest; **Douglas N. Swanston** and **Frederick J. Swanson**; pp. 199-221.
11. Forecasting the Effect of Landuse Plans on the Regional Market Conditions of the Sand and Gravel Business; **Robert H. Fakundiny**; pp. 223-242.
12. The Urbanizing River: A Case Study in the Maryland Piedmont; **Helen L. Fox**; pp. 243-271.
13. Geomorphology and Engineering Control of Landslides; **F. Beach Leighton**; pp. 273-287.
14. Scientific and Engineering Parameters in Planning and Development if a Landfill Site in Pennsylvania; **Richard M. Foose** and **Paul W. Hess**; pp. 289-412.
15. The Role of Geomorphology in Planning; **Robert F. Legget**; pp.315-328.
16. River Management Criteria for Oregon and Washington; **Leonard Palmer**; pp.329-346.

(Published by Dowden, Hutchinson, and Ross, Inc, in association with Halsted Press, I976, ISBN 0-87933-2441)

**Binghamton Geomorphology Symposium 8 – Geomorphology in Arid Regions (Donald O. Deohring, Ed.) SUNY - Binghamton, New York, 1977.**

1. Intermontane Basins of the Arid Western United States; **C.C. Reeves, Jr.**; pp. 7-25.
2. Geomorphic Controls of Alluvial Fan Deposition in the Sonoran Desert, Southwestern Arizona; **Steven G. Wells**; pp. 27-50.
3. The Formation of Pediments: Scarp Back-Wearing or Surface Downwasting? **John H. Moss;** pp. 51-78.
4. Origin of Segmented Cliffs in Massive Sandstones of Southeastern Utah; **Theodore M. Oberlander**; pp. 79-114.
5. Tectonic Geomorphology North and South of the Garlock Fault, California; **William B. Bull** and **Leslie D. McFadden**; pp. 115-138.
6. A Tentative Sediment Budget for an Extremely Arid Watershed in the Southern Negev; **Asher P. Schick**; pp. 139-163.
7. Sediment Origin and Sediment Load in a Semi-Arid Drainage Basin; **Ian A. Campbell**; pp. 165-186.
8. A Comparison of Observed Sediment-Transport Rates with Rates Computed Using Existing Formulas; **William F. Emmett** and **Luna B. Leopold**; pp. 187-188. Abstract.
9. Geomorphic Response of Central Texas Stream Channels to Catastrophic Rainfall; **Peter C. Patton** and **Victor R. Baker**; pp.189-217.
10. Vigil Network Establishment for Montana’s Coal Region; **Robert R. Curry**; pp. 219-220. Abstract.
11. Weathering of Caliche in Southern Nevada; **Laurence H. Lattman**; pp. 221-231.
12. Yardangs; **John F. McCauley,** **Maurice J. Grolier,** and **Carol S. Breed**; pp. 233-269.
13. The Maria Effect: Equilibrium and Activation of Aeolian Processes in the Great Basin of Nevada; **Wilton N. Melhorn** and **Dennis T. Trexler**; pp. 271-272. Abstract.

(Published by Publications in Geomorphology, Fort Collins, CO, 1977)

**Binghamton Geomorphology Symposium 9 – Thresholds in Geomorphology (Donald R. Coates and John D. Vitek, Eds.) SUNY - Binghamton, New York, 1978.**

1. Perspectives on Geomorphic Thresholds; **Donald R. Coates** and **John D. Vitek**; pp. 3-23.
2. Events in the Development of Geomorphology; **Louis C. Peltier**; pp.25-42.
3. Thresholds and Energy Transfer in Geomorphology; **Rhodes W. Fairbridge**; pp -43-49.
4. The Stream Head as a Significant Geomorphic Threshold; **M. J. Kirkby**; pp. 53-73.
5. Erosional Development of Valley-Bottom Gullies in the Upper Midwestern United States; **Joe M. Bradford** and **Robert F. Priest**; pp. 75-101.
6. Thresholds and Valley Widths in the South River Basin, Iowa; **Neil E. Salisbury**; pp. 103-129.
7. Sediment Deformation and Transport on Low-Angle Slopes: Mississippi River Delta; **H.H. Roberts**, **J.N. Suhayda** and **J. M. Coleman**; pp. 132-167.
8. Thresholds in Deterministic Models of the Rainfall-Runoff Process; **A.J. McKerchar**; pp. 171-177.
9. Stochastic Analysis of Thresholds in Hydrologic Time Series; **A. Ramachandra Rao**; pp. 179-208.
10. Thermodynamic Approach to Geomorphic Thresholds; **Iaakov Karcz**; pp. 209-226.
11. Thresholds in River Regimes; **Alan D. Howard**; pp. 227-258.
12. Geomorphic Thresholds as Defined by Ratios; **William B. Bull**; pp. 259-263.
13. Frequency, Magnitude, and Spatial Distribution of Mountain Rockfalls and rockslides in the Highwood Pass Area, Alberta, Canada; **James S. Gardner**; pp. 267-295.
14. Thresholds in Glacial Geomorphology; **Cuchlaine A.M. King**; pp. 297-3211.
15. Rive Ice Processes: Thresholds and Geomorphologic Effects in Northern and Mountain Rivers; **Derald G. Smith**; pp. 323-343.
16. Threshold and Limit Effects in Karst Geomorphology; **D. C. Ford**; pp. 345-362.
17. Barrier Island Migration; **Bruce P. Hayden**, **Robert Dolan**, and **Phyllis Ross**; pp. 363-384.
18. Bluebird Canyon Landslide – A Geomorphic Threshold Event; **F. Beach Leighton**; pp. 387-400.
19. Regional Landslide – Susceptibility Assessment for Wildland Management: A Matrix Approach; **Jerome V. DeGraff** and **H. Charles Romesburg**; pp. 401-414.
20. Human Causes of Accelerated Wind Erosion in California’s Deserts**; Howard G. Wilshire;** pp. 425-433.
21. Non-Point Source Pollutants with the Great Lakes – A Significant International Effort; **Richard R. Parizek**; pp. 435-472.
22. Some Applications of the Concept of Geomorphic Thresholds; **S.A. Schumm**; pp.473-485.

(Published by George Allen and Unwin, Ltd, 1980; ISBN 0-04-55103304)

**Binghamton Geomorphology Symposium 10 - Adjustments of the Fluvial System (Dallas D. Rhodes and Garnett P. Williams, Eds.) SUNY - Binghamton, New York, 1979.**

1. J. Hoover Mackin (1905-1968) as remembered by his friends and students; Assembled by **R. Ken Fahnestock**; pp. 3-11.
2. Catastrophe Theory as a Model for Change in Fluvial Systems; **William R. Graf**; pp. 13-32.
3. Invariant Power Functions as Applied to Fluvial Geomorphology; **Waite R. Osterkamp**; pp.; 33-54.
4. Dynamic Adjustments of Alluvial Channels; **Chih Ted Yang** and **Charles C.S. Song**; pp. 55-67.
5. Hydraulic Adjustment of the East Fork River, Wyoming to the Supply of Sediment; **Edmund D. Andrews**; pp. 69-94.
6. Distribution of Boundary Shear Stress in Rivers; **James C. Bathurst**; pp. 95-116.
7. Bank Processes, Bed Material Movement and Planform Development in A Meandering River; **Colin R. Thorne** and **John Lewin**; pp. 117-137.
8. Event Frequency and Morphological Adjustment of Fluvial Systems in Upland Britain; **A.M. Harvey**, **D.H. Hitchcock**, and **D.J. Hughes**; pp. 139-167.
9. Effects of Large Organic Debris on Channel Form and Fluvial Processes in the Coastal Redwood Environment; **Edward A. Keller** and **Taz Tally**; pp. 169-197.
10. Forest-Fire Devegetation and Drainage Basin Adjustments in Mountainous Terrain; **William D. White** and **Steve G. Wells**; pp. 199-223.
11. Slack-Water Deposits: A Geomorphic Technique for the Interpretation of Fluvial Paleohydrology; **Peter C. Patton**, **Victor R. Baker**, and **R. Craig Kochel**; pp. 225-253.
12. River Channel and Sediment Responses to Bedrock Lithology and Stream Capture, Sandy Creek Drainage, Central Texas; **Russell G. Shepherd**; pp. 255-275.
13. Quaternary Fluvial Geomorphic Adjustments in Chaco Canyon, New Mexico; **David W. Love**; pp. 277-308.
14. Channel Adjustment to Sediment Pollution by the China Clay Industry in Cornwall, England; **K.S. Richards**; pp. 309-331.
15. Hydraulic Geometry, Stream Equilibrium and Urbanization; **Marie Morisawa**; pp. 333-350.
16. Some Canadian examples of the Response of Rivers to Man-Made Changes; **Dale I Bray** and **Rolf Kellerhals**, pp. 351-371.

(Published by Kendall/Hunt Publishing Co. 1979, ISBN 0-8403-2108-2)

**Binghamton Geomorphology Symposium 11 – Applied Geomorphology (R. G. Craig and J.L., Craft, Eds.) Kent State University, Kent, Ohio, 1980.**

1. Geomorphic Process Data Needs for Environmental Management; **A.G. Everett**, pp. 1-16.
2. The Role of Geomorphology in the Identification and Evaluation of Natural Hazards; **John J. Clague**; pp. 17-43.
3. Landforms for Planning Use in Parts of Pierce County, Washington; **Allen J. Fiksdal**; pp. 44-54.
4. Geomorphology as an Aid to Hazardous Waste Facility Siting, Northeast United States; **Allen W. Hatheway** and **Zenas. Bliss**; pp. 55-71.
5. Geomorphic Manifestations of Salt Dome Stability; **Z. Berger** and **J Aghassy;** pp. 72-84.
6. Slope Movements Related to Expansive Soils on the Blackland Prairie, North Central, Texas; **James T. Kirkland** and **James C. Armstrong;** pp. 85-93.
7. Prediction of Engineering Properties and Construction Conditions from Geomorphic Mapping in Regional Siting Studies; **Gary E. Christenson**, **James R. Miller**, and **Denise D. Pieratti**; pp. 94-107.
8. Criteria for Constructing Optimal Digital Terrain Models; **R. G. Craig**; pp. 108-130.
9. Geomorphic Processes and Land Use Planning, South Texas Barrier Islands; **Christopher C. Mathewson** and **William F. Cole**; pp, 131-147.
10. Man-Made Structures and Geomorphic Changes Since 1876 Along the Ohio Shore of Lake Erie; **C.H. Carter**, **D. I. Benson** and **D.E. Guy, Jr**.; pp. 148-164.
11. Erosion Hazards Along the Mid-Atlantic Coast; **Robert Dolan**, **Bruce Hayden**, **Suzette K. May**, and **Paul May**; pp. 165-180.
12. Geomorphology and Land Subsidence in Bangkok, Thailand; **Jon L. Rau** and **Prinya Nutalaya;** pp. 181-201.
13. Land Use in Carbonate Terrain: Problems and Case Study Solutions**; Katherine A. Sheedy**, **Walter M. Leis**, **Abraham Thomas**, and **William F. Beers**; pp. 202-213.
14. Erode – A Computer Model of Drainage Basin Development Under Changing Baselevel Conditions; **N. Luanne Vabderpool**; pp. 214-223.
15. Morphologic and Morphometric Response to Channelization: The Case History of Big Pine Creek Ditch, Benton County, Indiana; **Robert S. Barnard** and **Wilton N. Melhorn**; pp. 224-239.
16. Evaluating Aquatic Habitat Using Stream Network Structure and Streamflow Predictions; **John B. Stall** and **Edwin E. Herricks**; pp. 240-253.

(Published by George Allen and Unwin, Ltd. London, 1980, ISBN 0-04-551050-4)

**Binghamton Geomorphology Symposium 12 – Space and Time in Geomorphology (Colin E. Thorn, Ed.) University of Illinois, Urbana-Champaign, Illinois,1981.**

1. The Spatial Variation of Soil Loss and Soil Loss Controls; **Michael J. Bovis**; pp. 1-24.
2. Soil-Geomorphic Models and the Spatial Distribution and Development of Alpine Soils; **Scott F. Burns** and **Phillip J. Tonkin**; pp. 25-43.
3. The Spatial Variability of Surficial Soil Movement Rates on Alpine Environments; **Nel Caine;** pp. 45-57.
4. Variability in Badlands Erosion; Problems of Scale and Threshold Identification; **Ian A. Campbell** and **John L. Honsaker**; pp. 59-79.
5. The Ergodic Principle om Erosional Models; **Richard G. Craig**; pp. 81-115.
6. The Geomorphology of the Sangamon Surface: Its Spatial and Temporal Attributes; **Leon R. Follmer**; pp. 117-146.
7. Spatial and Temporal variations in Karst Solution Rates: The Structure of Variability; **D.C. Ford** and **J.J. Drake**; pp. 147-170.
8. Alpine Mass-Wasting in Contemporary Time: Examples from the Canadian Rocky Mountains; **James S. Gardner**; pp. 171-192.
9. Spatial Variation of Fluvial Processes in Semi-Arid Lands; **William L. Graf**; pp. 193-217.
10. Interrelationships Among Geomorphic Interpretations of the Stratigraphic Record, Process Geomorphology and Geomorphic Models; **W. Hilton Johnson**; pp. 219-241.
11. Variability of Rainwash Erosion Within Small Sample Areas; **Shiu-hung Luk**; pp. 241-268.
12. The Influence of Topography on the Spatial Variability of Soils in Mediterranean Climates; **Daniel R. Muhs**; pp. 269-284.
13. Temporal Variability of a Summer Shorezone; **Antony R. Orme**; pp. 285-313.
14. Using the Normal Generated Distribution to Analyze Spatial and Temporal Variability Groundwater Outflow; **H. Charles Romeburg** and **Jerome DeGraff**, pp. 315-325.
15. Problems in the Identification of Stability and Structure from Temporal Data Series; **John Thornes**; pp. 327-353.
16. Geomorphic Responses to Climatic Forcing During the Holocene**; Wayne M. Wendland;** pp. 355-371.

(Published by George Allen and Unwin, Ltd., London, 1982, ISBN 0-04-551056-3)

**Binghamton Geomorphology Symposium 13 – Groundwater as a Geomorphic Agent 9 (R.G. LaFleur, Ed.) Rensselaer Polytechnic Institute, Troy, New York, 1982.**

1. Rates of Soil Formation; **John E. Foss** and **Antonio V Segovia**; pp. 1-17.
2. Piping and Sapping: Development of Landforms by Groundwater Outflow; **Charles G. Higgins**; pp. 18-58.
3. Near-Surface Groundwater and Evolution of Structurally Controlled Streams in Soft Sediments; **Zeev Berger** and **Jacob Aghas**sy; pp. 59-77.
4. Landforms and Soils of the Humid Tropics; **Antonio V. Sergovia** and **John E. Foss**; pp. 78-90.
5. Role of Subterranean Water in Landform Development in Tropical and Subtropical Regions; **C. Rowland Twidale**; pp. 91-134.
6. Potential Effects of Acid Rain on Glaciated Terrain; **William W. Shilts**; pp. 135-156.
7. Hydrologic Classification of Cave and Karst; **John E. Mylroie**; pp. 157-172.
8. Geomorphic Interpretation of Karst Features; **Arthur N. Palmer**; pp. 173-209.
9. Theory and Model for Global Carbonate Solution by Groundwater; **John J. Drake**; pp. 210-226.
10. Rate Processes: Chemical Kinetics and Karst Landform Development; **William B. White**; pp. 227-248.
11. Theoretical Considerations on Simulation of Karstic Aquifers; **James J. Cullen *IV*** and **Robert G. LaFleur**; pp. 249-280.
12. Role of Groundwater in Shaping the Eastern Coastline of the Yucatan Peninsula, Mexico; **William Back**, **Bruce B. Hanshaw**, and **J. Nicholas Van Driel**; pp. 281-293.
13. Karst Landform Development Along the Cumberland Plateau Escarpment of Tennessee; **Nicholas C. Crawford**; pp. 284-339.
14. Karst Groundwater Activity and Landform Genesis in Modern Permafrost Regions of Canada; **Derek C. Ford**; pp. 340-350.
15. Hydrogeomorphic Evolution of Karsted Plateaus in Response to Regional Tectonism; **Ernst H. Kasating, Jr.**; pp. 351-382.

(Published by Allen & Unwin, Inc. Boston, 1984, ISBN 0-04-551069-5)

* **Binghamton Geomorphology Symposium 14 - Models in Geomorphology (Michael J. Woldenberg, Ed.) SUNY-Buffalo, New York, 1983.**
1. The Antarctic Ice Sheet: A Surface Model for Satellite Altimeter Studies; **David J. Drewry**, **Neil F. McIntyre**, and **Paul Cooper**; pp. 1-23.
2. The Antarctic Ice Sheet: An Analog for Northern Hemisphere Paleo-Ice Sheets**? T.J. Hughes**, **G.H. Denton**, and **J.L. Fastook**; pp. 25-72.
3. Geological Model for the Configuration, History and Style of the Disintegration of the Laurentide Ice Sheet; **W.W. Shilts**; pp. 73-91.
4. Patterns of Glacial Erosion and Deposition Around Cumberland Sound, Frobisher Bay and Hudson Strait, and the Location of Ice Steams in the Eastern Canadian Arctic; **J.T. Andrews,** **J.A. Stravers**, and **G.H. Miller**; pp. 93-117.
5. Forward and Inverse Models in Sea-Level Studies; **James A. Clark**; pp. 119-138.
6. Coastal Terraces Generated by Sea-Level Change and Tectonic Uplift; **Arthur L. Bloom** and **Nobuyuki Yonekura**; pp. 139-154.
7. Computer Models of Shoreline Configuration: Headland Erosion and the Graded Beach Revisited; **Paul D. Komar**; pp. 155-170.
8. Sediment Transport in Relation to a Developing River Delta; **Charles E. Adams, Jr.,** **John T. Wells**, and **James M. Coleman**; pp. 171-189.
9. Simulation of Slope Development and the Magnitude and Frequency of Overland Flow Erosion in an Abandoned Hydraulic Gold Mine; **L.E. Band**; pp. 191-211.
10. A Model for the Evolution of Regolith-Mantled Slopes; **M.J Kirkby**; pp. 213-237.
11. Topologic Properties of Delta Distributary Networks; **Marie Morisawa**; pp. 239-268.
12. Optimal Models of River Branching Angles; **Andre G. Roy**; pp. 269-285.
13. Models of Fluvial Activity on Mars; **Victor R. Baker**; pp. 287-312.
14. Channel Networks Developed by Groundwater Sapping in Fine-Grained Sediments: Analogs to some Martian Valleys; **R. Craig Kochel**, **Alan D. Howard**, and **Charles McLane**; pp. 313-341.
15. Ground Ice Models for the Distribution and Evolution of Curvilinear Landforms on Mars; **Lisa A. Rossbacher**; pp. 343-372.
16. Wind Abrasion on Earth and Mars; **Ronald Greeley**, **Steven H. Williams**, **Bruce R. White**, **James B. Pollack**, and **John R. Marshall**; pp. 373-422.

(Published by Allen & Unwin, Boston, 1985, ISBN 0-04-551075-X)

**Binghamton Geomorphology Symposium 15 - Tectonic Geomorphology (Marie Morisawa and John T. Hack, Eds.) SUNY-Binghamton, New York, 1984.**

1. Morphotectonics of Continental Margins with Great Escarpments; **Clifford D. Ollier**; pp. 3-25.
2. Plate Tectonics and Landscape Development on the African Continent; **Michael A. Summerfield**; pp. 27-51.
3. Stages in the Creation of a Large Rift Valley – Geomorphic Evolution Along the Southern Dean Sea Rift; **Ron Gerson**, **Sari Grossman**, and **Dan Bowman**; pp. 53-73.
4. Geomorphic Indicators of Vertical Neotectonism Along Converging Plate Margins, Nicoya Peninsula, Costa Rica; **Paul W. Hare** and **Thomas W. Gardner;** pp. 75-104.
5. Large-Scale Tectonic Geomorphology of the Southern Alps, New Zealand; **John Adams;** pp. 105-128.
6. Correlation of Flights of Global Marine Terraces; **William B. Bull**; pp. 129-152.
7. Origin of Drainage Transverse to Structures in Orogens; **Theodore M. Oberlander**; pp. 155-182.
8. Tectonic Geomorphology of Alluvial Fans and Mountain Fronts Near Ventura, California; **Thomas K. Rockwell**, **Edward A. Keller**, and **Donald L. Johnson**; pp. 183-207.
9. Equilibrium Tendency in Piedmont Scarp Denudation, Wasatch Front, Utah; J**ames F. Petersen**; pp. 209-233.
10. Tectonic Geomorphology of the Basin and Range Colorado Plateau Boundary in Arizona; **Larry Mayer**; pp. 235-259.
11. Geomorphic Evolution of the Colorado Plateau Margin in West-Central Arizona: A Tectonic Model to Distinguish Between the Causes of Rapid, Symmetrical Scarp Retreat and Scarp Dissection; **Richard A. Young**; 261-278.
12. Geomorphic Evidence for Pliocene-Pleistocene Uplift in the Area of the Cape Fear Arch, North Carolina; **Helaine Walsh Markewich**; pp. 279-297.
13. Appalachian Piedmont Morphogenesis: Weathering, Erosion and Cenozoic Uplift; **Milan J. Pavich**; pp. 299-319.
14. Architecture of the Rappahannock Estuary – Neotectonics in Virginia; **Wayne L. Newell**; pp. 321-342.
15. Marine Terraces and Active Faults in Japan with Special Reference to Co-Seismic Events; **Yoko Ota**; pp. 345-366.
16. Tectonic Geomorphology and Its Application to Earthquake Prediction in China; **Mukang Han**; pp. 367-386.

(Published by Allen & Unwin, Boston, 1985, ISBN 0-04-551098-9)

**Binghamton Geomorphology Symposium 16, Hillslope Processes, (A.D. Abrahams, Ed.) SUNY- Buffalo, New York, 1985.**

1. Rates of Surface Processes and Denudation; **Anthony Young** and **Ian Saunders**; pp. 4-27.
2. Evaluation of Horton’s Theory of Sheetwash and Rill Erosion on the Basis of Field Experiments; **Thomas Dunne** and **Brian F. Aubry**; pp. 31-53.
3. Erosion Processes and Sediment Properties for Agricultural Cropland; **L. D. Meyer**; pp. 55-76.
4. Plant Cover Effects on Hillslope Runoff and Erosion: Evidence from Two Laboratory Experiments; **R.P.C. Morgan**, **H.J. Finney**, **H. Lavee**, **Elaine Merritt**, and **Christine A. Noble;** pp. 77-96.
5. Sediment Movement in Ephemeral Streams on Mountain Slopes, Canadian Rocky Mountains; **James S. Gardner**, pp. 97-113.
6. Sediment Movement and Storage on Alpine slopes in the Colorado Rocky Mountains; **T. Nelson Caine**; pp.115-137.
7. Solute Movement on Hillslopes on the Alpine Environment of the Colorado Front Range; **John C. Dixon**; pp. 139-159.
8. Hillslope Hydrology Models for Forecasting in Ungauged Watersheds; **M.G. Anderson** and **S. Howes**; pp. 161-186.
9. Hillslope Runoff Processes and Flood Frequency Characteristics; **Keith Beven**; pp. 187-202.
10. A Two-Dimensional Simulation Model for Slope and Stream Evolution; **M.J. Kirkby**; pp.203-222.
11. Controls on the Form and Development of Rock Slopes in Fold Terrane; **B.P. Moon**; pp. 226-243.
12. Influence of Scree Accumulation and Weathering on the Development of Steep Mountain Slopes; **I. Statham** and **S.C. Francis**; pp. 245-267.
13. Flow Behavior of Channelized Debris Flows, Mount St. Helens, Washington; **Thomas C. Pierson**; pp. 269-296.
14. Dynamics of Slow Landslides: A Theory for Time-Dependent Behavior**; Richard M. Iverson**; pp. 397-317.
15. The Morphology and Mechanics of Large-Scale Slope Movement, with Particular Reference to Southwest British Columbia; **Michael J. Bovis**; pp. 319-341.
16. Processes Leading to Landslides in Clay Slopes: A Review; **R. J. Chandler**; pp.343-360.
17. Hollows, Colluvium, and Landslides in Soil-Mantled Landscapes; **William E. Dietrich**, **Cathy J. Wilson**, and **Steven L. Reneau**; pp. 361-388.
18. Relative Slope Stability Mapping and Land-Use Planning in the San Francisco Bay Region, California; **Tor H. Nilsen**; pp. 389-413.

(Published by Allen & Unwin, Boston, 1986, ISBN 0-04-551102-00

**Binghamton Geomorphology Symposium 17 – Aeolian Geomorphology (William G. Nickling, Ed.) University of Guelph, Ontario, Canada, 1986**.

1. Collision in Aeolian Transport: The Saltation/Creep Link; **Brian B. Willetts** and **M. Ann Rice**; pp. 1-17.
2. Small Scale Wind Tunnel Modeling of Particle Transport – Froude Number Effect; **James D. Iverson**; pp. 19-33.
3. Mass Momentum and Kinetic Energy Fluxes of Saltating Particles; **Dale A. Gillette** and **Paul H. Stockton**; pp. 35-56.
4. Particle Transport by Atmospheric Winds on Venus: An Experimental Wind Tunnel Study; **Bruce R. White**; pp. 57-73.
5. The role of Vegetation in the Formation of Linear Dunes; **Haim Tsoar** and **Jens Tyge Moller**; 75-95.
6. Geomorphological Significance of Wind Flow Patterns Over a Namib Linear Dune; **Ian Livingstone;** pp. 97-112.
7. The Toshka-Canal Dune: Analysis of Development and Dynamics; **Helge Besler**; pp. 113-130.
8. Aeolian Processes and Dune Characteristics of a Developed Shoreline: Westhampton Beach, New York; **Karl F. Nordstrom**, **James M. McCluskey,** and **Peter S. Rosen**; pp. 131-147.
9. Quaternary Dunes of the Pacific Coast of the Californias; **Antony R. Orme** and **Vatche P. Tchakerian**; pp. 149-175.
10. Origins of Low-Angle Stratification in Aeolian Deposits; **Gary Kocurek**; pp. 177-193.
11. Aeolian Landforms: Laboratory Simulations and Field Studies; **Ronald Greeley**; pp. 195-211.
12. Aeolian Processes and Landforms in Glaciofluvial Environments of Southeastern Baffin Island, N.W.T., Canada; **Cheryl McKenna-Neuman** and **Robert Gilbert**; pp. 213-235.
13. The Frequency and Source Areas of Dust Storms; **Nicholas John Middleton**, **Andrew S. Goudie,** and **Gordon L. Wells**; pp. 237-259.
14. Effect of Antecedent Moisture Conditions on Dust Storm Generation in Arizona: **Anthony J. Brazel**, **William G. Nickling,** and **Jeffery Lee**; pp. 261-271.
15. Maneuver-Caused Wind Erosion Impacts, South Central New Mexico; **Richard A. Marston**; pp. 273-290.
16. Rock Varnish as an Indicator of Aeolian Environmental Change; **Ronald I. Dorn**; pp. 291-307.

(Published by Allen & Unwin, Boston, 1986, ISBN 0-04-551133-0)

**Binghamton Geomorphology Symposium 18 – Catastrophic Flooding (L. Mayer and D. Nash, Eds.) Miami University, Ohio, 1987**.

1. Flood Power; **Victor R. Baker** and **John E. Costa**; pp. 1-21.
2. Catastrophic Flooding and Atmospheric Circulation Anomalies; **Katherine K. Hirschboeck**; pp. 23-56.
3. El Nino and Annual Floods in Coastal Peru; **Peter R. Waylen** and **César N. Caviedes**; pp. 57-77.
4. Observations of Jökulhlaups from Ice-Dammed Strandline Lake, Alaska: Implications for Paleohydrology; **Matthew Sturm**, **James Beget** and **Carl Benson**; pp. 79-94.
5. GLACIAL-Lake Outbursts Along the Mid-Continent Margins of the Laurentide Ice-Sheet; **Alan E. Kehew** and **Mark L. Lord**; pp. 95-120.
6. Catastrophic Flooding into the Great Lakes from Lake Agassiz; **James T. Teller** and **L. Harvey Thorliefson**; pp. 121-138.
7. Drainage of Lake Wisconsin Near the End of the Wisconsin Glaciation; **Lee Clayton** and **John Attig**; pp. 139-153.
8. Stratigraphic Evidence of Large Floods in the Upper Mississippi Valley; **James C. Knox**; pp. 155-180.
9. Reconstruction of a Flood Resulting from a Moraine-Dam Failure Using Geomorphological Evidence and Dam-Break Modeling; **P.A. Carling** and **M.S. Glaister**; pp. 181-200.
10. Changes Accompanying an Extraordinary Flood on a Sand Bed Stream; **W.R. Osterkamp** and **John E. Costa**; pp.201-224.
11. A Medieval Catastrophic Flood in Central West Iran; **Ian Brookes**; pp. 225-246.
12. Occurrence and Geomorphic Effects of Streamflow and Debris Flow Floods in Northern Arizona and Southern Utah; **Robert H. Webb**; pp. 247-265.
13. Techniques Used by the U.S. Geological Survey in Estimating the Magnitude and Frequency of Floods; **Wilbert O. Thomas**, Jr.; pp. 269-288.
14. Planetary Analogs for Geomorphic Features Produced by Catastrophic Flooding; **Lisa A. Rossbacher** and **Dallas D. Rhodes**; pp.289-304.
15. Dynamics of a Missoula Flood; **Richard G. Craig**; pp. 305-332.
16. Effects of a High Magnitude Flood in a Mediterranean Climate: A Case Study in the Jordan River Basin; **Moshe Inbar**; pp. 333-353.
17. Storm-Induced Catastrophic Flooding in Virginia and West Virginia, November,1985; **G. Michael Clark**, **R.B. Jacobsen**, **J. Steven Kite**, and **R. C. Linton**; pp. 355-379.
18. A High Magnitude Flood in the Sinai Desert; **Asher P. Schick** and **Judith Lekach**; pp. 381-410.

(Published by Allen & Unwin, Boston, 1987, ISBN 0-04-551142-X)

**Binghamton Geomorphology Symposium 19 – History of Geomorphology: from Hutton to Hack; (K.J. Tinkler, Ed.) Brock University, St. Catherines, Ontario, Canada 1988**.

1. On the Nature of Geo-History, With reflections on the Historiography of Geomorphology; **Gordon L. Herries Davies**; pp. 1-10.
2. Les Méconnus: Eighteenth Century French Pioneers of Geomorphology; **Francois Ellenberger**; pp. 11-36.
3. Worlds Apart: Eighteenth Century Writing on Rivers, Lakes, and the Terraqueous Globe; **Keith Tinkler**; pp. 37-71.
4. James Hutton’s Role in the History of Geomorphology; **Dennis R. Dean**; pp. 73-84.
5. The Turning of the Worm – Early Nineteenth Century of Concepts of Soil in Britain – The Development of Ideas and Ideas of Development, 1834-1843; **Brian T. Bunting**; pp. 85-107.
6. James David Forbes on the Mer de Glace in 1842: Early Quantification in Glaciology; **Frank F. Cunningham**; pp. 109-126.
7. “Extraordinary and Terrifying Metamorphosis” – on the Seismic Causes of Slope Instability; **David Alexander**; pp. 127-150.
8. From Colonial Science to Scientific Independence: Australian Reef Geomorphology in the Nineteenth Century; **D. R. Stoddart**; pp. 151-163.
9. European Science in High Asia: Geomorphology in the Karakoram Himalaya to 1939; **Kenneth Hewitt**; pp. 165-203.
10. Eustasy to Plate Tectonics: Unifying Ideas on the Evolution of the Major Features on the Earth’s Surface; **R.P. Beckinsale** and **R. D. Beckinsale**; 205-221.
11. Reconstructing the Chronology of Lake Bonneville: An Historical Review; **Dorothy Sack**; pp. 223-256.
12. Different Aspects of Polish Geomorphology: Paleogeographic, Dynamic and Applied; **Leszek Starkel**; pp. 257-282.
13. A Tribute to John T. Hack by His Friends and Colleagues; Compiled by **W.R. Osterkamp**; pp. 283-291.
14. A Perspective on Geomorphology in the Twentieth Century: Links to the Past and Future; **John D. Vitek**; pp. 293-324.
15. Afterword; **Mott T. Greene**; pp. 325-331.

(Published by Allen & Unwin, Boston, 1989, ISBN 0-04-551138-1)

**Binghamton Geomorphology Symposium 20 – Appalachian Geomorphology (T.W. Gardner and W.D. Sevon. Eds.) Dickinson College, Carlisle, PA, 1989**.

1. Rivers and Valleys of Pennsylvania, Revisited; **Marie Morisawa**; pp. 1-22.
2. Geodynamic and Geomorphic Evolution of the Permo-Triassic Appalachian Mountains; **Rudy Slingerland** and **Kevin P. Furlong;** pp. 23-37.
3. Apatite Fission-Track Thermochronology of the Pennsylvania Appalachian Basin; **M. K. Roden** and **D. S. Miller**, pp. 39-51.
4. Constraints from Deep Crustal Structure on Long-Term Landform Development of the British Isles and Eastern United States; **Yvonne Battiau-Queney**; pp. 53-70.
5. Neotectonism Along the Atlantic Passive Continental Margin: A Review; **Thomas W. Gardner**; pp. 71-97.
6. Climatic Variations and the Appalachians from the Late Paleozoic to the Present: Results from Model Simulations; **Eric J. Barron**; pp. 99-118.
7. A Record of Appalachian Denudation in Postrift Mesozoic and Cenozoic Sedimentary Deposits of the U.S. Middle Atlantic Continental Margin; **C. Wylie Poag** and **William D. Sevon**; pp. 119-157.
8. Appalachian Piedmont Landscapes from the Permian to the Holocene: **Emery T. Cleaves;** pp. 159-179.
9. Regolith Residence Time and the Concept of Surface Age of the Piedmont “Peneplain”; **M.J. Pavich**; pp. 181-196.
10. Computing Appalachian Geomorphology; **Richard C. Craig;** pp. 197-207.
11. Central and Southern Appalachian Water and Wind Gap Origins: Review and New Data; **G. Michael Clark**; pp. 209-232.
12. Glacial and Periglacial Erosion of the Appalachians; **Duane D. Braun**; pp. 233-256.
13. The Role of Catastrophic Geomorphic Events in Central Appalachian Landscape Evolution; **Robert B. Jacobsen**, **Andrew J. Miller**, and **James A. Smith**; pp 257-284.
14. Distribution and Genesis of Soils of the Northeastern United States; **Edward J. Ciolkosz**, **William J. Waltman**, **Thomas W. Simpson**, and **Robert R. Dobos**; pp. 285-302.
15. Erosion in the Juniata river Drainage Basin, Pennsylvania; **W.D. Sevon**; pp. 303-318.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol. 2, No. 1-3, 1989).

**Binghamton Geomorphology Symposium 21 -Soils and Landscape Evolution (P.L.K. Knuepfer and L.D. McFadden, Eds.) SUNY-Binghamton, New York, 1990**.

1. Soil Geomorphology: A Linkage of Pedology and Surficial Processes; **L.D. McFadden** and **P.L.K. Knuepfer**; 197-203.
2. Soil-Geomorphic Research – A Selective Overview; **Peter W. Birkeland**; pp. 207-224.
3. Soil Variations on Hillslopes in Humid Temperate Climates; **A. John Gerrard**; pp. 25-244.
4. Genesis of Soils and Landscapes in the Ridge and Valley Province of Central Pennsylvania; **Edward J. Ciolkosz,** **Brian J. Carter**, **Michael T. Hoover**, **Richard C. Cronce**, **William J. Waltman**, and **Robert R. Dobos**; pp. 245-261.
5. The Role of Soil Processes in Determining Mechanisms of Slope Failure and Hillslope Development in a Humid-Tropical Forest, Eastern Puerto Rico; **Andrew Simon**, **Matthew C. Larsen**, and **Cliff R. Hupp**; pp. 263-286.
6. The Role of Topography and Surface Cover Upon Soil Formation Along Hillslopes in Arid Climates; **Aaron Yair**; pp. 287-299.
7. Soils and Geomorphic Evolution of Bedrock Facets on a Tectonically Active Mountain Front, Western Sangre de Cristo Mountains, New Mexico; **Christopher M. Menges**; pp. 301-332.
8. Soil Catena Development on Fault Scarps of Different Ages, Eastern Escarpment of the Sierra Nevada, California; **Margaret E. Berry**; pp. 333-350.
9. Stream Terrace Genesis: Implications for Soil Development; **William B. Bull**; pp. 351-367.
10. From a Black to a Gray Box – A Mass Balance Interpretation of Pedogenesis; **Oliver A. Chadwick**, **George H. Brimhall**, and **David M. Hendricks**; pp. 369-390.
11. Soil Development on Stable Landforms and Implications for Landscape Studies; **Jennifer W. Harden**; pp. 391-398.
12. Spatial Soil Variability in the Cajon Pass Chronosequence: Implications for the Use of Soils as a Geochronological Tool; **J.B.J. Harrison**, **L.D. McFadden**, and **R.J. Weldon III**; pp. 399-416.
13. Contrasting Soils and Landscapes of the Piedmont and Coastal Plain, Eastern United States; **H.W. Markewich**, **M.J. Pavich**, and **G.R. Buell**; pp. 417-447.
14. Interaction Between Aggrading Geomorphic Surfaces and the Formation of a Late Pleistocene Paleosol in the Palouse Loess of Eastern Washington State; **Eric V. McDonald** and **Alan J. Busacca**; pp. 449-470.
15. Soil and Geomorphic Evolution Within the Rolling Red Plains Using Pleistocene Volcanic Ash Deposits; **Brian J. Carter**, **Phil A. Ward**, and **Jean T. Shannon**; pp. 471-488.
16. Soils and Landscape Evolution of Eolian Plains: The Southern High Plains of Texas and New Mexico; **Vance T. Holliday**; pp. 489-515.
17. Eolian Landscape Evolution and Soil Formation in the Chaco Dune Field, Southern Colorado Plateau, New Mexico; **Stephen G. Wells**, **L.D. McFadden**, and **J.D. Schultz**; pp. 517-546.
18. Soil-Stratigraphic Techniques in the Study of Soil and Landform Evolution Across the Southern Alps, New Zealand; **P.J. Tonkin** and **L.R. Basher**; pp. 547-575.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol. 3, Nos. 3&4, 1990).

**Binghamton Geomorphology Symposium 22 – Periglacial Geomorphology (John C. Dixon and Athol D. Abrahams, Eds.) SUNY-Buffalo, New York, 1991**.

1. Periglacial Geomorphology: What, Where, and When? **C.E. Thorn**; pp. 1-30.
2. Origin of Certain High-Elevation Local Broad Uplands in the Central Appalachians South of the Glacial Border, U.S.A. - A Paleoperiglacial Hypothesis; **G. Michael Clark** and **James Hedges**; pp. 31-61.
3. Spatial Patterns of Geochemical Denudation in a Colorado Alpine Environment; **Nelson Caine**; pp. 63-88.
4. The Zonation of Freeze-Thaw Temperatures at a Glacier Headwall, Dome Glacier, Canadian Rockies; **James S. Gardner**; pp. 89-102.
5. Mechanical Weathering in the Antarctic: A Maritime Perspective; **Kevin J. Hall**; pp. 103-123.
6. Miniature Sorted Stripes in the Páramo de Piedras Blancas (Venezuelan Andes); **Francisco L. Pérez**; pp. 125-157.
7. A Model of Water Movement in Rock Glaciers and Associated Water Characteristics; **John R. Giardino**, **John D. Vitek**, and **Joseph L. DeMorett**; pp. 159-184.
8. Snow-avalanche Paths: Alpine to Subalpine Depositional Zone; **David R. Butler**, **George P. Malanson**, and **Stephen J. Walsh**; pp. 185-202.
9. Long-term Rates of Contemporary Solifluction in the Canadian Rocky Mountains; **D.J. Smith**; pp. 203-221.
10. Factors Influencing the Distribution and Initiation of Active-layer Detachment Slides on Ellesmere Island, Arctic Canada; **Antoni G. Lewkowicz**; pp. 223-250.
11. Buoyancy Forces Induced by Freeze-thaw in the Active Layer: Implications for Diapirism and Soil Circulation; **Bernard Hallet** and **Edwin D. Waddington**; pp.251-279.
12. Formation of Seasonal Ice Bodies; **Wayne H. Pollard** and **Robert O van Everdingen**; pp.281-304.
13. Palsa-scale Frost Mounds; **Frederick E. Nelson**, **Kenneth M. Hinkel**, and **Samuel I. Outcalt**; pp. 305-325.
14. Recent Ground Warming Inferred From the Temperature in Permafrost near Mayo, Yukon Territory; **C.R. Burn**; pp. 327-350.

(Published by John Wiley & Sons, Chichester, England,1992, ISBN 0-471-83342-2)

**Binghamton Geomorphology Symposium 23 – Geomorphic Systems (J.D. Phillips and W.H. Renwick, Eds.) Miami University, Oxford, Ohio, 1992**.

1. The End of Equilibrium? **Jonathan D. Phillips**; pp. 195-201.
2. Theoretical and Methodological Premises of Geomorphological Forecasting; **A.M. Trofimov** and **J.D. Phillips**; pp. 203-211.
3. Limitations of the system Approach in Geomorphology; **A.E. Scheidegger**; pp. 213-217.
4. Nonlinear Dynamical Systems in Geomorphology: Revolution or Evolution**? Jonathan D. Phillips**; pp. 219-229.
5. Hutton to Horton: Views of Sequence, Progression and Equilibrium in Geomorphology; **Barbara A. Kennedy**; pp. 231-250.
6. New Wine in Old Bottles: The Historiography of a Paradigm Change; **Dorothy Sack**; pp. 251-263.
7. Equilibrium, Disequilibrium, and Nonequilibrium Landforms in the Landscape; **William H. Renwick**; pp. 265-276.
8. Some Comments on Equilibrium Concepts and Geomo0rphic Systems; **Larry Mayer**; pp. 277-295.
9. On the Multifractal Characterization of River Basins; **Ede J. Ijjasz-Vasquez**, **Ignacio Rodriguez-Iturbe**, and **Rafael L. Bras**; pp. 297-310.
10. Nonequilibrium Geomorphic Processes and Deterministic Chaos; **George P. Malanson,** **David R. Butler**, and **Konstantine P. Georgakakos**; pp. 311-322.
11. Process Interactions, Temporal Scales and the Development of Hillslope Gully Systems: Howgill Fells, Northwest England; **A.M. Harvey**; pp. 323-344.
12. Energy, Time, and Channel Evolution in Catastrophically Disturbed Fluvial Systems; **Andrew Simon;** pp. 345-372.
13. Thresholds and the Spatial Variability of Flood Power During Extreme Floods; **Francis J. Magilligan**; pp. 373-390.
14. Response of the Connecticut River Estuary to Late Holocene Sea Level Rise; **Peter C. Patton** and **Gregory S. Horne**; pp. 391-417.
15. An Equilibrium Relationship for Shear Velocity and Apparent Roughness Length in Aeolian Saltation; **Douglas J. Sherman**; pp. 419-431.
16. Statistical Models of Fluvial Systems; **Bruce L. Rhoads**; pp. 433-455.
17. The Morphology of Graded Gravel Rivers: A Network Perspective; **James E. Pizzuto**; pp. 457-474.
18. Character of Headwaters Adjustment to Base Level Drop, Investigated by Digital Modeling; **Phillip R. Bonneau** and **R. Scott Snow, pp. 475-487.**

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 5, Nos 3-5, 1992)

**Binghamton Geomorphology Symposium 24 – Geomorphology: The Research Frontier and Beyond (J.D. Vitek and J.R. Giardino, Eds.) McMaster University, Hamilton, Ontario, Canada, 1993**.

1. Preface: A Perspective on Getting to the Frontier; **John D. Vitek** and **John R. Giardino**; pp. vii-xii.
2. Geomorphology: The Research Frontier and Beyond – Introduction; **H. Jesse Walker**; pp. 1-7.
3. Extraterrestrial Geomorphology: Science and Philosophy of Earthlike Planetary Landscapes; **V.R. Baker**; pp. 9-35.
4. Human Influence in Geomorphology; **Andrew Goudie**; pp. 37-59.
5. Soil Geomorphology – Present Dilemmas and Future Challenges; **John Gerrard;** pp. 61-84.
6. Mass Movement; The research Frontier and Beyond: A Geomorphological Approach; **Denys Brunsden**; pp. 85-128.
7. Glacial Geomorphology: Modeling Processes and Landforms; **Jonathan M. Harbor**; pp. 129-140.
8. Periglacial Geomorphology in the 21st Century; **Dietrich Barsch**; pp. 141-163.
9. The Changing Geomorphology of the Humid Tropics; **Avijit Gupta**; pp. 165-186.
10. The Research Frontier and Beyond: Granitic Terrains; **C.R. Twidale**; pp. 187-223.
11. Coastal Geomorphology Through the Looking Glass; **Douglas J. Sherman** and **Bernard O. Bauer**; pp. 225-249.
12. Fluvial Geomorphology: Where Do We Go from Here? **Derald G. Smith**; pp. 251-262

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 7, Nos. 1-3, 1993)

**Binghamton Geomorphology Symposium 25 – Geomorphology and Natural Hazards (Marie Morisawa, Ed.) SUNY-Binghamton, New York, 1994**.

1. Geomorphology and Natural Hazards; **Paul A. Gares**, **Douglas J. Sherman**, and **Karl F. Nordstrom;** pp. 1-18.
2. The Geomorphological Dimensions of Natural Disasters; **Charles L. Rosenfeld**; pp. 27-36.
3. Geologic Effects of Hurricanes; **Nicholas K. Coch**; pp. 37-63.
4. Natural Hazards of Shoreline Bluff erosion: A Case Study of Horizon View, Lake Huron; **Patrick L. Lawrence**; pp. 65-81.
5. Geomorphological Effects of Tsunami Run-Up and Backwash; **A.G. Dawson**; pp. 83-94.
6. Distribution of Hazard Types in a Drainage Basin and its Relation to Geomorphological Setting; **Hiroo Ohmori** and **Hiroshi Shimazu**; pp.95-106.
7. Recent Climatic Change and Catastrophic Geomorphic Processes in Mountain Environments; **Stephen G. Evans** and **John J. Clague**; pp. 107-128.
8. Erroneous Perceptions of Fluvial Hazards; **S.A. Schumm**; pp. 129-138.
9. Geomorphological Understanding of Floods; **Victor R. Baker**; pp. 239-256.
10. Geomorphic and Hydrologic Aspects of Monsoon Floods on the Narmada and Tapi Rivers in Central India; **Vishwas S. Kale**, **Lisa L. Ely**, **Yehouda Enzel**, and **Victor R. Baker**; pp. 157-168.
11. Spatial Variations in the Magnitude of the 1993 Floods, Raccoon River Basin, Iowa; **Karen L. Prestegaard**, **Anne M. Matherne**, **Brendan Shane**, **Kevin Houghton**, **Michael O’Connell** and **Nancy Katyl**; pp. 169-182.
12. Flooding of Property by Runoff from Agricultural Land in Northwest Europe; **John Boardman**, **Lawrence Ligneau**, **Ad de Roo**, and **Karel Vandaele**; pp. 183-196.
13. Geomorphology Applied to Flooding Problems of Closed-Basin Lakes….Specifically Great Salt Lake, Utah; **Genevieve Atwood**; pp. 197-219.
14. The Landslide Hazard in the Himalayas: Geological Control and Human Action; **John Gerrard**; pp. 221-230.
15. The Geomorphology of Some Debris Flows in the Southern Sierra Nevada, California; **Jerome V. DeGraff**; pp. 231-252.
16. Lichen Dating of Coseismic Landslide Hazards In Alpine Mountains; **William B. Bull**, **John King**, **Fanchen Moutoux**, and **William Phillips**; pp. 253-264.
17. The Importance of Earthquake-Induced Landslides to Long-Term Slope Erosion and Slope-Failure Hazards in Seismically active Regions; **David K. Keefer**; pp. 265-284.
18. Large Mid-Holocene and Late Pleistocene Earthquakes on the Oquirrh Fault Zone, Utah; **Susan S. Olig**, **William R. Lun**d, and **Bill D. Black**; pp. 285-315.
19. Global Warming and Permafrost in Eurasia: A Catastrophic Scenario; **Jaromir Demek**; pp. 317-329.
20. Geological Hazards, Vulnerability, and Risk Assessment Using GIS: Model for Glenwood Springs, Colorado; **Mario Mejía-Navarro**, **Ellen E. Wohl,** and **Sherry D. Oaks**; pp. 331-354.

(Published by Elsevier, Amsterdam as Geomorpholgy Vol 40, Nos. 1-4, 1994)

**Binghamton Geomorphology Symposium 26 – Biogeomorphology, Terrestial and Freshwater Systems (C.R. Hupp, W.R. Osterkamp, and A.D. Howard, Eds.) University of Virginia, Charlottrsville, Virginia, 1995**.

1. Little River Revisited – Thirtyfive Years after Hack and Goodlett; **W.R. Osterkamp**, **C.R. Hupp**, and **M.R. Schening**; pp. 1-20.
2. Ecological Perspectives on Rock Surface Weathering: Towards a Conceptual Model; **Heather Viles;** pp. 21-35.
3. Effects of Vegetation Change on Interrill Runoff and Erosion, Walnut Gulch, Southern Arizona; **Athol D. Abrahams**, **Anthony J. Parsons**, and **John Wainwright**; pp. 37-48.
4. Interactions Between Semi-Natural Vegetation and Hydrogeomorphological Processes; **A. M. Gurnell** and **K.J. Gregory**; pp. 49-60.
5. Flow Resistance and Sediment Transport by Concentrated Overland Flow in a Grassland Valley; **Ian P. Prosser**, **William E. Dietrich**, and **Janelle Stevenson**; pp. 71-86.
6. Short and Long-Term Effects of Bioturbation on Soil Erosion, Water and Soil Development in an Arid Environment; **A. Yair**; pp. 87-99.
7. Geobotanical Assessment in the Great Plains, Rocky Mountains, and Himalaya; **John F. Shroder, Jr.** and **Michael P. Bishop**; pp.101-119.
8. Channel Metamorphosis, Floodplain Disturbance, and Vegetation Development: Ain River, France; **Richard A. Marston**, **Jacky Girel**, **Guy Pautou**, **Herve Piégay**, **Jean-Paul Bravard**, and **Chris Arneson**; pp. 121-131.
9. Large Woody Debris, Physical Process, and Riparian Forest Development I Montane River Networks of the Pacific Northwest; **Kevin L. Fetherston**, **Robert J. Naiman**, and **Robert E. Bilby**; pp. 133-144.
10. River Stabilisation due to Changing Climate and Vegetation During the Late Quaternary in West Tasmania, Australia; **Gerald C. Nans**on, **Mike Barbetti**, and **Gillian Taylor**; pp. 145-158.
11. Mapping the Responses of Riparian Vegetation to Possible Flow Reductions in the Snake River, Idaho; **W. Carter Johnson**, **Mark D. Dixon**, **Robert Simons**, **Susan Jenson**, and **Kevin Larson**; pp. 159-173.
12. Woody Vegetation and Channel Morphogenesis in a Low-Gradient, Gravel-Bed Streams in the Ozark Plateaus, Missouri and Arkansas; **Rose McKenney**, **Robert B. Jacobson**, and **Robert C. Werthheimer**; pp. 175-198.
13. Geomorphology, Disturbance, and the Soil and Vegetation of Two Subtropical Wet Steepland Watersheds of Puerto Rico; **F.N. Scatena** and **Ariel E. Lugo**; pp. 199-213.
14. Spatial Patterns of Hydrology, Geomorphology, and Vegetation on the Floodplain of the Amazon River in Brazil from a Remote Sensing Perspective; **Leal A. Mertes**, **Darin L. Daniel**, **John M. Melack**, **Bruce Nelson**, **Luiz A. Martinelli**, and **Bruce R. Forsberg**; pp. 215-232.
15. The Cow as a Geomorphic Agent – A Critical review; **Stanley W. Trimble** and **Alexandra C. Mendel**; pp. 233-253.
16. Sedimentation Rates and Patterns in Beaver Ponds in a Mountain Environment; **David R. Butler** and **George P. Malanson**; pp. 255-269.
17. A Recent Downward Expansion of Shoreline Shrubs at Lake Bienville (Subarctic Quebec); **Yves Bégin** and **Louis Filion**; pp. 271-282.
18. Geomorphological Controls on Coastal Vegetation at the Virginia Coast Reserve; **Bruce P. Hayden**, **Marcio C.F.V. Santos**, **Guofan Shao**, and **R. Craig Kochel**; pp. 283-300.
19. How Does Floodplain Width Affect Floodplain River ecology? A Preliminary Exploration Using Simulations; **Mary E. Power**, **Gary Parker**, **William E. Dietrich**, and **Adrian Sun**; pp. 301-317.
20. Modelling the Links Between Vegetation and Landforms; **Mike Kirkby**; pp. 319-335.
21. Biogeomorphology and Landscape Evolution: The Problem of Scale; **Jonathan D. Phillips**; pp. 337-347.

(Published by Elsevier, Amsterdam as *Geomorphology,* Vol 18, Nos. 1-4, 1995)

**Binghamton Geomorphology Symposium 27 – Scientific Nature of Geomorphology (Bruce L. Rhoads and Colin E, Thorn, Eds.) University of Illinois Urbana-Champaign, Illinois, 1996**.

1. The Methodological Roles of Theory in Science; **Harold I. Brown**; pp. 2-20.
2. Observation in Geomorphology; **Bruce L. Rhoads** and **Colin E. Thorn**; pp. 21-56.
3. Hypotheses and Geomorphological Reasoning; **Victor R. Baker**; pp. 57-85.
4. Fashion in Geomorphology; **Douglas J. Sherman**; pp. 87-114.
5. Toward a Philosophy of Geomorphology; **Bruce L. Rhoads** and **Colin E. Thorn**; pp. 115-143.
6. Space, Time and the Mountain – How Do We Order What We See? **Michael Church**; pp. 147-170.
7. Samples and Cases: Generalisation and Explanation in Geomorphology; **Keith Richards**; pp. 171-190.
8. Climatic Hypotheses of Alluvial-fan Evolution in Death Valley are Not Testable; **Ronald I. Dorn**; pp.191-220.
9. Physical Modelling in Fluvial Geomorphology: Principles, Applications and Unresolved Issues; **Jeff Peakall**, **Phil Ashworth**, and **Jim Best**; pp. 221-253.
10. A Role for Theoretical Models in Geomorphology; **Michael J. Kirkby**; pp. 257-272.
11. Physically Based Modelling and the Analysis of Landscape Development; **D.S.L. Lawrence**; pp.273-288.
12. Equifinality and Uncertainty in Geomorphological Modelling; **Keith Beven**; pp. 289-313.
13. Deterministic Complexity, Explanation, and Predictability in Geomorphic Systems; **Jonathan D. Phillips**; pp. 315-335.
14. Limitations on Predictive Modeling in Geomorphology; **Peter K. Haff**; pp. 337-369.
15. Derivation and Innovation in Improper Geology, aka Geomorphology; **C.R. Twidale**; pp. 361-389.
16. Geomorphology, Geography, and Science; **Bernard O. Bauer**; pp. 381-413.
17. The Evolution of Geomorphology, Ecology, and Other Composite Sciences; **W.R. Osterkamp** and **C.R. Hupp**; pp. 425-441.
18. Geomorphology and Policy for Restoration of Impounded American Rivers; What is “Natural?” **William L. Graf**; pp. 443-473.

(Published by John Wiley & Sons, Chichester, England, 1996, ISBN 0-471-96811-0)

**Binghamton Geomorphology Symposium 28 – Changing the Face of Earth: Engineering Geomorphology (J.R. Giardino, R.A. Marston, and M. Morisawa, Eds.) University of Bologna, Bologna, Italy, 1997**.

1. Engineering Geomorphology: An Overview of Changing the Face of Earth; **John R. Giardino** and **Richard A. Marston**; pp. 1-11.
2. Sheet Fractures, Other Stress Form and Some Engineering Implications; **J.R. Vidal Romaní** and **C.R. Twidale**; pp. 23-27.
3. Fracture Characteristics in Weathered Granites; **Judy Ehlen**; pp. 29-45.
4. The Role of Thermal Stress Fatigue in the Breakdown of rock in Cold Regions**; Kevin Hall;** pp. 47-63.
5. Geomorphological Aspects of Road Construction in a Cold Environment, Finland; **Matti Seppálá**; pp. 65-91.
6. Engineering Geomorphology of Rock Glaciers; **K.C. Burger**, **J.J. Degenhardt, Jr.**, and **J.R. Giardino**; pp. 93-132.
7. Geomorphology and the Urban Tropics: Building an Interface Between Research and Usage; **Avijit Gupta** and **Rafi Ahmad**; pp. 133-149.
8. A Geomorphological Strategy for Conducting Environmental Assessments in Karst Areas; **George Veni**; pp. 151-180.
9. Landslide Hazard Evaluation: A Review of Current Techniques and Their Application in a Multi-Scale Study, Central Italy; **Fausto Guzzetti**, **Alberto Carrara**, **Mauro Cardinali**, and **Paola Reichenbach**; pp. 181-216.
10. Forest Engineering Implication of Storm-Induced Mass Wasting in the Oregon Coast Range, USA; **Charles L. Rosenfeld**; pp. 217-228.
11. Fluvial Geomorphology and River Engineering: Future Roles Utilizing a Fluvial Hydrosystems Framework; **David J. Gilvear**; pp. 229-245.
12. Engineering Geomorphology at the Cutting Edge of Land Disturbance: Erosion and Sediment Control on Construction Sites; **Jon Harbor**; pp.247-263.
13. Time and Persistence of Alluvium: River Engineering, Fluvial Geomorphology, and Mining Sediment in California; **Allan James**; pp. 265-290.
14. Principles of Engineering Geomorphology for Managing Channel Erosion and Bedload Transport, Examples from French Rivers; **J.-P. Bravard**, **N. Landon**, **J.-L. Peiry,** and **H. Piégay**; pp. 291-311.
15. Effectiveness of Sediment Control Structures Relative to Spatial Patterns of Upland Soil Loss in an Arid Watershed, Wyoming; **Richard A. Marston** and **Lawrence S. Dolan**; pp. 313-323.
16. Hydrologic Processes and Geomorphic Constraints on Urbanization of Alluvial Fan Slopes; **A.P. Schick**, **T. Grodek**, and **M.G. Wolman**; pp. 324-335.
17. Source-to-Sink Sediment Transfers, Environmental Engineering and Hazard Mitigation in the Steep Var River Catchment, French Riviera, Southeastern France; **Edward J. Anthony** and **Maurice Julian**; pp. 337-254.
18. Use of Hydrogeomorphic Concepts to Design Created Wetlands in Southeastern Virginia; **G. Richard Whitecar** and **W. Lee Daniels**; pp. 355-371.
19. Decades of Change: Contributions of Geomorphology to Fluvial and Coastal Engineering and Management; **J.M. Hooke**; pp. 373-389.
20. Engineering Geomorphology on the Coast: Lessons from West Dorset; **Denys Brunsden** and **Roger Moore;** pp. 391-409.
21. Sea Floor Engineering Geomorphology: Recent Achievements and Future Directions; **David B. Prior** and **James R. Hooper**; pp. 411-439.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 31, Nos. 1-4, 1999.

**Binghamton Geomorphology Symposium 29 – Coastal Geomorphology (P.A. Gares and D.J. Sherman, Eds.) Woods Hole Oceanographic Institute, Woods Hole, MA, USA, 1998**.

1. Editorial; **Douglas J. Sherman** and **Paul A. Gares**; oo. 1-6.
2. Rock Coasts, with Particular Emphasis on Shore Platforms; **Alan S. Trenhaile**; pp. 7-22.
3. Bioconstruction, Bioerosion, and Disturbance on Tropical Coasts: Coal Reefs and Rocky Limestone Shores; **Tom Spencer** and **Heather Viles**; pp. 23-50.
4. Organisational Controls, Typologies and Time Scales of Paraglacial Gravel-Dominated Coastal Systems; **Julian D. Orford**, **Donald L. Forbes**, and **Simon C. Jennings**; pp. 51-85.
5. Predicting the Crest Height of a Gravel Beach; **Mark S. Lorang**;; pp. 87-101.
6. Barred Beaches; **Kathelijne M. Wijnberg** and **Aart Kroom**; pp. 103-120.
7. Beach Groundwater Dynamics; **Diane P. Horn**; pp. 121-146.
8. Low energy’ Sandy Beaches in Marine and estuarine environments: A Review; **Nancy L. Jackson**, **Karl F. Nordstrom**, **Ian Eliot**, and **Gerhard Masselink**; pp. 147-162.
9. Port Redesign and Planned Beach Renourishment in a High Wave Energy Sandy-Muddy Coastal Environment, Port Gisborne, New Zealand; **Terry Healy**, **Scott Stephens**, **Kerry Black**, **Richard Gorman**, **Russell Cole**, and **Brett Beamsley**; pp. 163-177.
10. New England Tidal Inlets with Special Reference to Riverine-Associated Inlet Systems; **D.M. FitzGerlad**, **I.V. Buynevich**, **R.A. Davis, Jr.**, and **M.S. Fenster**; pp. 179-208.
11. Hydrodynamics and Sedimentation in Salt Marshes: Examples From a Macrotidal Marsh, Bay of Fundy; **Robin G.D. Davidson-Arnott**, **Danika van Proosdij**, **Jeff Ollerhead,** and **Laura Schostak**; pp. 209-231.
12. Sea-Level Rise and Coastal Marsh Sustainability: Geological and Ecological Factors in the Mississippi Delta Plain; **Denise J. Reed**; pp. 233-243.
13. Foredunes and Blowouts: Initiation, Geomorphology, and Dynamics; **Partick Hesp**; pp. 245-268.
14. Spatial Characterization, Resolution, and Volumetric Change of Coastal Dunes Using Airborne LIDAR: Cape Hatteras, North Carolina: **Jason W. Woolard** and **Jeffery D. Colby;** pp. 269-287.
15. Techniques for GIS Modeling of Coastal Dunes; **Brian D. Andrews**, **Paul A. Gares**, and **Jeffery D. Colby**; pp. 289-308.
16. Chaos, Fractals, and Self-Organization in Coastal Geomorphology: Simulating Dune Landscapes in Vegetated Environments; **Andreas C.W. Baas**; pp. 309-328.

(Published by Elsevier, Amsterdam in *Geomorphology* as Vol 48, Nos 1-3, 2002)

**Binghamton Geomorphology Symposium 30 – Geomorphology in the Public Eye: Policy Issues, Education and the Public (P.L.K. Knuepfer and J.F. Petersen, Eds.) SUNY -Binghamton, New York, 1999**.

1. Introduction -Geomorphology in the Public Eye: Policy Issues, Education, and the Public; **Peter L. K. Knuepfer** and **James F. Petersen**, pp. 95-105.
2. Geomorphology, Natural Hazards, Vulnerability and Prevention of Natural Disasters in Developing Countries; **Irasema Alcántara-Ayala**; pp. 107-124.
3. Geomorphic Studies of Landslides in the Tully Valley, New York: Implications for Public Policy and Planning; **Donald L. Pair** and **William M. Kappel;** pp. 125-135.
4. Municipal Initiatives for Managing Dunes in Coastal Residential Areas: A Case Study of Avalon, New Jersey, USA; **Karl F. Nordstrom**, **Nancy L. Jackson**, **Michael S. Bruno**, and **Harry A. de Butts**; pp. 137-152.
5. An Ecosystem Approach for Determining Environmental Water Allocations in Australian Dryland River Systems: The Role of Geomorphology; **M.C. Thoms** and **F. Sheldon;** pp. 153-168.
6. Rivers, Dams, and Willow Flycatchers: A Summary of Their Science and Policy Connections; **William L. Graf**, **Julie Stromberg**, and **Brad Valentine**; pp. 169-188.
7. Soil Erosion Assessment Tools from Point to Regional Scales – the Role of Geomorphologists in Land Management Research and Implementation; **Chris S. Renschler** and **Jon Harbor**; pp. 189-209.
8. Geomorphology’s Role in the Study of Weathering of Cultural Stone; **Gregory A. Pope,** **Thomas C. Meierding**, and **Thomas R. Paradise**; pp. 211-225.
9. Landscape Evolution of the Five Islands of South Louisiana: Scientific Policy and Salt Done Utilization and Management; **Whitney J. Autin**; pp. 227-244.
10. Aesthetics and Relevance in Geomorphological Outreach; **Andrew S. Goudie**; pp. 245-249.
11. The Value of Teaching About Geomorphology in non-Traditional Settings**; R. Laurence Davis**; pp. 251-260.
12. Creating Curricular Change: Needs in Grades 8-12 Earth Science; **Steven K. Marks**, **John D. Vitek**, **John R. Giardino**, and **Kay C. McQueen**; pp. 261-273.
13. Permafrost Science and Secondary Education: Direct Involvement if Teachers and Students in Field Research; **Anna E. Klene**, **Frederick E. Nelson**, **John Nevins**, **Don Rogers**, and **Nikolay I. Shiklomanov**; pp. 275-287.
14. The Role of Roadcuts, Quarries, and Other Artificial Exposures in Geomorphology Education; **James F. Petersen**; pp. 289-301.
15. Teaching About Relict, No-Analog Landscapes; **Arthur L. Bloom**; pp 303-311.
16. The educational Value of the History of Geomorphology; **Dorothy Sack**; pp. 313-323.
17. Shifting Paradigms in Geomorphology: The Fate of Research Ideas in an Educational Context; **Anthony R. Orme**; pp. 325-342.
18. Geomorphology and the World Wide Web; **John F. Shroder, Jr.**, **Michael P. Bishop**, **Jeffery Olsenholler**, and **J. Philip Craiger**; pp. 343-363.

(Published by Elsevier, Amsterdam in *Geomorphology* as Vol 47, Nos. 2-4, 2002)

**Binghamton Geomorphology Symposium 31 – Integration of Computer Modeling and Field Observations in Geomorphology (John F. Shroder, Jr., and Michael P. Bishop, Eds.) SUNY-Binghamton, New York, 2000**.

1. Preface; **John F. Shroder, Jr**. and **Michael P. Bishop**; pp. 1-9.
2. Lateral Flow Routing into a Wetland: Field and Model Perspectives; **T.N. Brown**, **C.A. Johnston**, and **K.R. Cahow**; pp. 11-23.
3. A Smoothed-Particle Hydrodynamic Automaton of Landform Degradation by Overland Flow; **M. Bursik**, **B. Martinex-Hacket**, **H. Delgado**, and **A. Gonzalez-Huesca**; pp. 25-44.
4. Modeling Runoff and Runon in a Desert Shrubland Ecosystem, Jornada Basin, New Mexico; **David A. Howes** and **Athol D. Abrahams**; pp. 45-73.
5. Evaluation of Bed Load Transport Formulae Using Field Evidence from the Vedder River, British Columbia; **Yvonne Martin**; pp. 75-95.
6. Channel Response to Tectonic Forcing: Field Analysis of Stream Morphology and Hydrology in the Mendocino Triple Junction Region, Northern California**; Noah P. Snyder**, **Kelin X. Whipple**, **Gregory E. Tucker**, and **Dorothy J. Merritts**; pp. 97-127.
7. Mapping, Modeling and Visualization of the Influences of Geomorphic Processes on the Alpine Treeline Ecotone, Glacier National Park, MT, USA; **Stephen J. Walsh**, **David R. Butler**, **George P. Malanson**, **Kelley A. Crews-Meyer**, **Joseph P. Messina,** and **Ningchuan Xiao**; pp. 129-145.
8. Modeling Large-Scale Fluvial Erosion in Geographic Information Systems; **David P. Finlayson** and **David R. Montgomery**; pp. 147-164.
9. Ground Penetrating Radar:2-Dand 3-D Subsurface Imaging of a Coastal Barrier Spit, Long Beach, WA, USA; **Harry M. Jol**, **Don C. Lawson**, and **Derald G. Smith**; pp, 165-181.
10. Drainage Basin Evolution in the Rainfall Erosion Facility: Dependence on Initial Conditions; **Jon D. Pelletier**; pp. 183-196.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol. 53, Nos. 1-2, 2003)

**Binghamton Geomorphology Symposium 32 Mountain Geomorphology- Integrating Earth Systems (David R. Butler, Stephen J. Walsh, and George P. Malanson, Eds.) University of North Carolina, Chapel Hill, North Carolina, 2001**.

1. Editorial: Introduction to the Special Issue: Mountain Geomorphology – Integrating Earth Systems; **David R. Butler**, **Stephen J. Walsh**, and **George P. Malanson**; pp. 1-4.
2. Infiltration on Mountain Slopes: A Comparison of Three Environments; **Carol P. Harden** and **P. Delmas Scruggs**; pp. 5-24.
3. Drainage, Sediment Transport, and Denudation Rates on the Nanga Parbat Himalaya, Pakistan; **Kevin Cornwell**, **Doug Norsby,** and **Richard Marston**; pp. 25-43.
4. Spatial Distribution of Sediment Storage Types and Quantification of Valley Fill Deposits in an Alpine Basin, Reintal, Bavarian Alps, Germany; **Lothar Schrott**, **Gabi Hufschmidt**, **Martin Hankammer**, **Thomas Hoffman**, and **Richard Dikau**; pp. 45-63.
5. Impacts of Reforestation and Gravel Mining on the Malnant river, Haute-Savoie, French Alps; **Richard A. Marston**, **Jean-Paul Bravard**, and **Tim Green**; pp.65-74.
6. Spatial Variation in the Power of Mountain Streams in the Sangre de Cristo Mountains, New Mexico; **Mark A. Fonstad**; pp. 75-96.
7. Local Scouring and Morphological Adjustments in Steep Channels with Check-Dam Sequences; **Mario A. Lenzia** and **Francesco Comiti**; pp. 97-109.
8. Predicting Fine Sediment Dynamics Along a Pool-Riffle Mountain Channel; **Sara Rathburn** and **Ellen Wohl**; pp. 111-124.
9. The Geomorphic Significance of Step-Pools in Mountain Streams; **Anne Chin**; pp. 125-137.
10. Equal-Mobility Bed Load Transport in a Small, Step-Pool Channel in the Ouachita Mountains; **Daniel A. Marion** and **Frank Weirich**; pp. 139-154.
11. Boulder Weathering and Erosion Associated with a Wildfire, Sierra Ancha Mountains, Arizona; **Ronald I. Dorn**; pp. 155-171.
12. Influence of Substrate on the Distribution of the Hawaiian Silversword *(Argyroxiphium sandwicense* DC.) in Haleakala (Maui, HI); **Francisco L. Perez**; pp. 173-202.
13. Lithological, Structural, and Geomorphic Controls on Ribbon Forest Patterns in a Glaciated Mountain Environment; **David R, Butler**, **George P. Malanson**, **Matthew F. Bekker**, and **Lynn M. Resler**; pp. 203-217.
14. Zoogeomorphology in the Alpine: Some Observations on Abiotic-Biotic Interactions; **Kevin Hall** and **Neil Lamont**; pp. 219-234.
15. Post-Oligocene River Incision, Southern Sierra Madre Occidental, Mexico; **David R. Montgomery** and **Jorge López-Blanco**; pp. 235-247.
16. The Shapes of Cold High Mountains in Sedimentary Rocks; **D. M. Cruden**; pp. 249-261.
17. Inferring Erosional Resistance of Bedrock Units in the East Tennessee Mountains from Digital Elevation Data; **Hugh M Mills**; pp.263-281.
18. Glacial Erosion and Geomorphology in the Northwest Sierra Nevada, CA; **L. Allan James**; pp. 283-303.
19. Advances in Holocene Mountain Geomorphology Inspired by Sediment Budget Methodology; **Olav Slaymaker**, **Catherine Souch**, **Brian Menounos**, and **Gabriel Filippelli**; pp. 305-316.
20. Debris Flows in Glacier National Park, Montana: Geomorphology and Hazards; **Forrest D. Wilkerson** and **Ginger L. Schmid**; pp. 317-328.
21. Integrating Soils and Geomorphology in Mountains – an Example from the Front Range of Colorado; **P.W. Birkeland**, **R.R. Shroba**, **S.F. Burns**, **A.B. Price** and **P.J. Tonkin**; pp. 329-344.
22. Remote Sensing and Geomorphometry for Studying Relief Production in High Mountains; **Michael P. Bishop**, **John F. Shroder, Jr.,** and **Jeffery D. Colby**; pp. 345-361.
23. High Spatial Resolution Hyperspectral Mapping of In-stream Habitats, Depths, and Woody Debris in Mountain Streams; **W. Andrew Marcus**, **Carl Legleiter**, **Richard J. Aspinall**, **Joseph W. Boardman**, and **Robert L. Crabtree**; pp. 363-380.
24. Solifluction Steps and Risers, Lee Ridge, Glacier National Park, Montana, USA: A Scale and Pattern Analysis; **Stephen J. Walsh**, **Ling Bian**, **Sean McKnight, Daniel G. Brown**, and **Evan S. Hammer**; pp. 381-398.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 55, Nos. 1-4, 2003.)

**Binghamton Geomorphology Symposium 33 – Dams in Geomorphology (P. J. Beyer, Ed.) Bloomsburg University of Pennsylvania, Bloomsburg, PA, 2002**.

1. Introduction to the Special Issue: Dams and Geomorphology; **Patricia J. Beyer**; pp. 1-2.
2. Geomorphology and American Dams: The Scientific, Social, and Economic Context; **William L. Graf**; pp. 3-26.
3. Dams and Geomorphology: Research Progress and Future Direction; **Geoffrey E. Petts** and **Angela M. Gurnell**; pp. 27-47.
4. The Geomorphic Influences of Beaver Dams and Failures of Beaver Dams; **David R. Butler** and **George P. Malanson**; pp. 48-60.
5. Changes in Hydrologic Regime by Dams; **Francis J. Magilligan** and **Keith H. Nislow**; pp. 61-78.
6. Effects of Jackson Lake Dam on the Snake River and its Floodplain, Grand Teton National Park, Wyoming, USA; **Richard A. Marston**, **John D. Mills**, **David R. Wrazien**, **Beau Bassett**, and **Dale K. Splinter**; pp. 79-98.
7. The Role of Impoundments in the Sediment Budget of the Coterminous United States; **W.H. Renwick**, **S.V. Smith**, **J.D. Bartley**, and **R.W. Buddemeier**; pp. 99-111.
8. Dams, Sediment Sources and Reservoir Silting in Romania; **Maria Rãdoane** and **Nicolae Rãdoane**; pp. 112-125.
9. Floodplain – River Ecosystems: Fragmentation and Water Resources Development; **Martin C. Thoms**, **Mark Southwell**, and **Heather M. McGinness**; pp. 126-138.
10. Statistical Analysis of Lateral Migration of the Rio Grande, New Mexico; **Gigi A. Richard**, **Pierre Y. Julian**, and **Drew C. Baird**; pp. 139-155’
11. Equilibrium or Indeterminate? Where Sediment Budgets Fail: Sediment Mass Balance and Adjustment of Channel Form, Green River Downstream from Flaming Gorge Dam, Utah and Colorado; **Paul E. Grams** and **John C. Schmidt**; pp. 156-181.
12. Potential Sedimentation Impacts Related to Dam Removal: Icicle Creek, Washington, USA; **Mark S. Lorang** and **Graeme Aggett**; pp. 182-201.
13. Sediment from Hydraulic Mining Detained by Englebright and Small Dams in the Yiba Basin; **L. Allan James**; pp. 202-226.
14. Stream Ecosystem response to Small Dam Removal: Lessons from the Heartland; **Martin W. Doyle**, **Emily H. Stanley**, **Cailin H. Orr**, **Andrew R. Selle**, **Suresh A. Seth**i, and **Jon M. Harbor**; pp. 227-244.
15. The Evolution of Gravel Bed Channels after Dam Removal: Case Study of the Anaconda and Union City Dam Removals; **Laura S. Wildman** and **James G. MacBroom**; pp. 245-262.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 71, Nos. 1-2, 2005)

**Binghamton Geomorphology Symposium 34 – Ice Sheet Geomorphology – Past and Present Processes and Landforms (P.J. Fleisher, P.L.K. Knuepfer, and D.R. Butler, Eds.) SUNY-Binghamton, NY, 2003.**

1. Introduction to the Special Issue: Ice Sheet Geomorphology; **P.J. Fleisher**, **P.L.K. Knuepfer**, and **D.R. Butler**; pp. 1-3.
2. Geomorphic Evidence for Active and Inactive Phases of Late Devensian Ice in North-Central Ireland; **Jasper Knight**; pp. 4-19.
3. Glaciohydraulic Supercooling in Former Ice Sheets? **Grahame J. Larson**, **Daniel E. Lawson,** **Edward B. Evenson**, **Richard B. Alley**, **Óskar Knudsen**, **Mathes S. Lachniet**, and **Staci L. Goetz**; pp. 20-32.
4. Icelandic Jökulhlaup Impacts: Implications for Ice-Sheet Hydrology, Sediment Transfer and Geomorphology; **Andrew J. Russell**, **Mathew J. Roberts**, **Helen Fay**, **Philip M. Marren**, **Nigel J. Cassidy**, **Fiona S. Tweed**, and **Tim Harris;** pp. 33-64.
5. Geomorphic Impact and Rapid Subsequent recovery from the 1996 Skeiǒarársandur Jökulhlaup, Iceland, Measured with Multi-Year Airborne Lidar; **Lawrence C. Smith**, **Yongwei Sheng**, **Francis J. Magilligan**, **Norman D. Smith**, **Basil Gomez**, **Leal A.K. Mertes**, **William B. Krabil**, and **James B. Garvin**; pp. 65-75.
6. Outburst Flooding and the Initiation of Ice-Stream Surges in Response to Climatic Cooling: A Hypothesis; **R.B. Alley**, **T.K. Dupont**, **B.R. Parizek**, **S. Anandakrishnan**, **D. E. Lawson**, **G.J. Larson**, and **E.B. Evenson**; pp 76-89.
7. Cosmogenic Nuclide Evidence for Minimal Erosion Across Two Subglacial Sliding Boundaries of the Late Glacial Fennoscandian Ice Sheet; **Jon Harbor**, **Arjen P. Stroven,** **Derek Fabel**, **Anders Clarhäll**, **Johan Kleman**, **Yingkui Li**, **David Elmore**, and **David Fink**; pp. 90-99.
8. Terrestrial Ice Streams – A View from the Lobe; **Carrie E. Jennings**; pp. 100-124.
9. Subglacial Morphology and Glacial Evolution of the Palmer Deep Outlet System, Antarctic Peninsula; **Eugene Domack**, **David Amblas**, **Robert Gilbert**, **Stafanie Brachfeld,** **Angelo Camerlenghi**, **Michele Rebesco**, **Miquel Canals**, and **Roger Urgeles**; pp. 125-143.
10. Lake-Ice Conveyor Deposits: Geomorphology, Sedimentology, and Importance in Reconstructing the Glacial History of the Dry Valleys; **Brenda L. Hall**, **Chris H. Hendy**, and **George H. Denton**; pp. 143-156.
11. The Death Mask of the Antarctic Ice Sheet: Comparison of Glacial Geomorphic Features Across the Continental Shelf; **J.S. Wellner**, **D.C. Heroy**, and **J.B. Anderson**; pp, 157-171.
12. Till – As a Glacial “Tectomict”, Its Internal Architecture, and the Development of a “Typing” Method for Till Differentiation; **John Menzies**, **Jaap J.M. van der Meer**, and **James Rose**; pp. 172-200.
13. Subglacial Deformation of Trees Within Overridden Foreland Strata, Bering Glacier, Alaska; **P. Jay Fleisher**, **Matthew S. Lachniet**, **Ernest H. Muller**, and **Palmer K. Bailey**; pp. 201-211.
14. Morphology and GPR Stratigraphy of a Frontal Part of an End Moraine of the Laurentide Ice Sheet: Paris Moraine near Guelph, ON, Canada; **S. Sadura**, **I.P. Martini**, **A.L. Endres**, and **K. Wolf**; pp. 212-225.
15. Middle Wisconsin Glaciation in the Genesee Valley, NY: A Stratigraphic Record Contemporaneous with Heinrich Event, H4; **Richard A. Young** and **George S Burr**; pp. 226-247.
16. Deglaciation of the Appalachian Plateau, Northeastern Pennsylvania – Till Shadow, Till Knobs Forming “Beaded Valleys”: Revisiting Systematic Stagnation-Zone Retreat; **Duane D. Braun**; pp. 248-265.
17. Subglacial and Proglacial Glacitectonic Deformation in the Neoproterozoic Port Askaig Formation, Scotland; **Douglas I. Benn** and **Anthony R. Prave**; pp. 266-280.

(Published by Elsevier, Amsterdam as Geomorphology Vol 75, Nos 1-2, 2006)

**Binghamton Geomorphology Symposium 35 -Weathering and Landscape Evolution (Alice Turkington, Jonathan Phillips, and Sean Campbell, Eds.) University of Kentucky, Lexington, KY, 2004**.

1. Weathering and Landscape Evolution; **Alice V. Turkington**, **Jonathan D. Phillips**, and **Sean W. Campbell**; pp. 1-6.
2. About the Weathering Front: Contrasting Approached to the Study and Classification of Weathered Mantle; **Judy Ehlen;** pp. 7-21.
3. Animating the Biodynamics of Soil Thickness Using Process Vector Analysis: A Dynamic Denudation Approach to Soil Formation; **D.L. Johnson**, **J.E.J. Domier**, and **D.N. Johnson**; pp.23-46.
4. Beach Etching and Shore Platforms; **C.R. Twidale**, **J.A. Bourne**, and **J.R. Vidal Romani**; pp. 47-61.
5. Relative-Age Dating of Transported Regolith and Application to Study of Landform Evolution in the Appalachians; **Hugh H. Mills**; pp. 63-96.
6. *In Situ* Weathering Rind Erosion; **Steven J. Gordon** and **Ronald I. Dorn**; pp. 97-113.
7. Weathering, Geomorphic Work, and Karst Landscape evolution in the Cave City Groundwater Basin, Mammoth Cave. Kentucky; **Chris Groves** and **Joe Meiman**; pp. 115-126.
8. Chemical Weathering and Landscape Development in Mid-Latitude Alpine Environments; **John C. Dixon** and **Colin E. Thorn**; pp. 127-145.
9. Glaciers Show Direct Linkage Between Erosion Rate and Chemical Weathering Fluxes; **Suzanne Prestrud Anderson**; pp. 147-157.
10. Chemical Weathering and Boulder Mantles, Kärkevagge, Swedish Lapland; **R.G. Darmody**, **C.E. Thorn,** and **C.E. Allen**; pp. 159-170.
11. The Influence of Aspect on the Biological Weathering of Granites: Observations from the Kunlun Mountains, China; **Kevin Hall**, **Joselito M. Arocena**, **Jan Boelhouwers**, and **Zhu Liping**; pp. 171-188.
12. Microclimate and Weathering in the Central Namib Desert, Namibia; **Heather A. Viles**; pp. 189-209.
13. Salt-Weathering Simulations Under Hot Desert Conditions: Agents of Enlightenment or Perpetuators of Preconceptions? **B.J. Smith**, **P.A. Warke**, **J.P. McGreevy**, and **H.L. Kane**; pp. 211-227.
14. Sandstone Weathering: A Century of Research and Innovation; **Alice V. Turkington** and **Thomas R. Paradise**; pp. 229-253.
15. Weathering Instability and Landscape Evolution; **Jonathan D. Phillips**; pp. 255-272.

(Published by Elsevier, Amsterdam as Geomorphology Vol 67, Nos 1-2, 2005)

**Binghamton Geomorphology Symposium 36 –Geomorphology and Ecosystems (M.C. Thoms, C.S. Renschler and M.W. Doyle, Eds.) SUNY-Buffalo, NY, 2005.**

1. Geomorphology and Ecosystems: Challenges and Keys for Success in Bridging Disciplines; **C.S. Renschler**, **M.W. Doyle**, and **M. Thoms**; pp. 1-8.
2. Analogies Between Mineral Sediment and Vegetative Particle Dynamics in Fluvial Systems; **Angela M. Gurnell**: pp. 9-22.
3. Remote Sensing of Floodplain Geomorphology as a Surrogate for Biodiversity in a Tropical River System (Madre de Dois, Peru); **Stephen K. Hamilton**, **Josef Kellndorfer**, **Bernard Lehner**, and **Mathias Tobler**; pp. 23-38.
4. The Role of Aeolian Dust in Ecosystems; **Grant McTainsh** and **Craig Strong**; pp. 39-54.
5. Influence of Landslides on Biophysical Diversity – A Perspective from British Columbia; **Marten Geertsema** and **James J. Pojar**; pp. 55-69.
6. Precontact Vegetation and Soil Nutrient Status in the Shadow of Kohala Volcano, Hawaii; **Oliver A. Chadwick**, **Eugene F. Kelly**, **Sara Hotchkiss**, and **Peter M. Vitousek**; pp. 70-83.
7. Functional Ecomorphology: Feedbacks Between Form and Function in Fluvial Landscape Ecosystems; **Stuart G. Fisher**, **James B. Hefferman, Ryan A. Sponseller**, and **Jill R. Welter**; pp. 84-96.
8. Stream Channels in Peatlands: The Role of Biological Processes in Controlling Channel Form; **Jeffery R. Watters** and **Emily H. Stanley**; pp. 97-110.
9. The Problem of Boundaries in Defining Ecosystems; A Potential Landmine for Uniting Geomorphology and Ecology; **David M. Post**, **Martin W. Doyle**, **John L. Sabo**, and **Jacques C. Finlay**; pp. 111-126.
10. Hierarchical Patterns of Physical-Biological Associations in River Ecosystems; **Melissa Parsons** and **Martin C. Thoms**; pp. 127-146.
11. A Framework for Interdisciplinary Understanding of Rivers as Ecosystems; **E.S.J. Dollar**, **C.S. James**, **K.H. Rogers**, and **M.C. Thoms**; pp. 147-162.
12. Soil and Soil Organic Carbon Redistribution on the Landscape**: Jerry C. Ritchie**, **Gregory W. McCarty**, **Erik R. Venteris**, and **T. C. Kaspar**; pp. 163-171.
13. Evaluation of a Small Beach Nourishment Project to Enhance Habitat Suitability for Horseshoe Crabs; **Nancy L. Jackson**, **David R. Smith**, **Ronnachai Tiyarattanachai,** and **Karl F. Nordstrom**; pp. 172-185.
14. Reactivation of a Cryptobiotic Stream Ecosystem in the McMurdo Dry Valleys, Antarctica: A Long-Term Geomorphological Experiment; **D.M. McKnight**, **C.M. Tate**, **E.D. Andrews**, K. **D.K. Niyogi,** **K. Cozzetto**, **K. Welch**, **W.B. Lyons**, and **D.G. Capone**; pp, 186-204.
15. The Geomorphic and Ecological Effectiveness of Habitat Rehabilitation Works: Continuous Measurement of Scour and Fill Around Large Logs in Sand-Bed Streams; **Dan Borg, Ian Rutherford**, and **Mike Stewardson**; pp. 205-216.
16. Nonlinear Biofluvial Responses to Vegetation Change in a Semiarid Environment; **Mel Neave** and **Scott Rayburg**; pp. 217-239.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 89, Nos. 1-2, 2007)

**Binghamton Geomorphology Symposium 37 – The Human Role in Changing Fluvial Systems (L. Allan James and W. Andrew Marcus, Eds.) University of South Carolina, Columbia, SC, 2006**.

1. Preface: The 2006 Binghamton Geomorphology Symposium on The Human Role in Changing Fluvial Systems; **L. Allan James** and **W. Andrew Marcus**; pp. 144-147.
2. The Human role in Changing Fluvial Systems: Retrospect, Inventory and Prospect**; L Allan James** and **W. Andrew Marcus**; pp.152-171.
3. The Human Role in Changing River Channels; **K.J. Gregory**; pp. 172-191.
4. Human Impact on Land-Ocean Sediment Transfer by the World’s Rivers; **D. E. Walling;** pp. 192-216.
5. Human Impacts to Mountain Streams; **Ellen Wohl;** pp. 217-248.
6. Human Impacts on Headwater Fluvial Systems in the Northern and Central Andes; **Carol P. Harden**; pp. 249-263.
7. Hydrologic Variation with Land Use Across the Contiguous United States; Geomorphic and Ecological Consequences for Stream Ecosystems; **N. LeRoy Puff**, **Brian P. Bledsoe**, and **Christopher O. Cuhaciyan**; pp. 264-285.
8. Floodplain Sedimentation in the Upper Mississippi Valley: Natural Versus Human Accelerated; **James C. Knox**; pp. 286-310.
9. Human Impacts on Fluvial Systems in the Mediterranean Region; **J.M. Hooke**; pp. 311-335.
10. Downstream Hydrologic and Geomorphic Effects of Large Dams on American Rivers; **William L. Graf;** pp. 336-360.
11. Disturbance, Stream Incision, and Channel Evolution: The roles of Excess Transport Capacity and Boundary Materials in Controlling Channel Response; **Andrew Simon** and **Massimo Rinaldi**; pp. 361-383.
12. Global Warming and Fluvial Geomorphology; **Andrew S. Goudie**; pp. 384-394.
13. Confronting Hysteresis: Wood Based River Rehabilitation in Highly Altered Riverine Landscapes of South-eastern Australia: **Andrew P. Brooks**, **Timothy Howell**, **Tim B. Abbe**, and **Angela H. Arthington**; pp. 395-422.
14. A Geomorphological Approach to the Management of rivers Contaminated by Metal Mining; **M.G. Macklin**, **P.A. Beaver**, **K.A. Hudson-Edwards**, **G. Bird**, **T.J. Coulthard**, **I.A. Dennis**, **P.J. Lechler**, **J. R. Miller**, and **J.N. Turner**; pp. 423-447.
15. Human-Induced Changes in Animal Populations and Distributions and the Subsequent Effects on Fluvial Systems; **David R. Butler**; pp. 448-459.
16. Urban Transformation of River Landscapes on a Global Context; **Anne Chin**; pp. 460-487.
17. Geomorphic Effects of Rural-to-Urban Land Sue Conversion of Three Streams in the Central Redbed Plains of Oklahoma; **Ranbir S. Kang** and **Richard A. Marston**; pp. 488-506.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 79, Nos. 3-4, 2006)

**Binghamton Geomorphology Symposium 38 – Complexity in Geomorphology (M.A. Fonstad and A.B. Murray, Eds.) Duke University, Durham, NC, 2007**.

1. Preface: Complexity (and Simplicity) in Landscapes; **B. Murray** and **M.A. Fonstad**; pp. 173-177.
2. The Landscape Reynolds Number and Other Dimensionless Measures of Earth Surface Processes; **P. K. Haff**; pp. 178-185.
3. Spontaneous Tidal Network Formation with a Constructed Salt Marsh: Observations and Morphodynamic Modelling; **Andrea D’Alpaos**, **Stefano Lanzoni**, **Marco Marani**, **Andrea Bonometto**, **Giovanni Cecconi**, and **Andrea Rinaldo;** pp. 186-197.
4. Scaling in River Corridor Widths Depicts Organization in Valley Morphology; **Chandana Gangodagamage**, **Elizabeth Barnes,** **Efi Foufoula-Georgiou**; pp. 198-215.
5. Quantifying Fluvial Non-Linearity and Finding Self Organized Criticality? Insights from Simulations of River Basin Evolution; **Tom J. Coulthard** and **Marco J. Van De Wie**l; pp. 216-235.
6. Complexity, Self-Organization and Variation in Behaviour in Meandering rivers; **J.M. Hooke;** pp. 236-258.
7. Complexity in a Cellular Model of a River Avulsion; **Douglas J. Jerolmack** and **Chris Paola**; pp. 259-270.
8. Patterns in the Sand: Form Forcing Templates to Self-Organization; **Giovanni Coco** and **A. Brad Murray**; pp. 271-290.
9. Fractal Behavior in Space and Time in a Simplified Model of Fluvial Landform Evolution; **Jon D. Pelletier**; pp. 291-301.
10. Self-Organized Complexity in Geomorphology: Observations and Models; **Donald L. Turcotte**; pp. 302-310.
11. Complex Systems in Aeolian Geomorphology; **Andreas C.W. Baas**; pp. 311-331.
12. Simulating the Development of Martian Highland Landscapes Through the Interaction of Impact Cratering, Fluvial Erosion, and Variable Hydrologic Forcing; **Alan D. Howard**; pp. 332-363.
13. Perfection and Complexity in the Lower Brazos River; **Jonathan D. Phillips**; pp. 364-377.
14. Geomorphological Limits to Self-Organization of Alpine Forest-Tundra Ecotone Vegetation; **Yu Zeng**, **George P. Malanson**, and **David R. Butler**; pp. 378-392.
15. Dynamics of Coupled Human-Landscape Systems; **B.T. Werner** and **D.E. McNamara;** pp. 393-407.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 91, Nos. 3-4, 2007)

**Binghamton Geomorphology Symposium 39 – Fluvial Deposits and Environmental History: Geoarchaeology, Paleohydrology, Environmental Change (Paul F. Hudson, Karl W. Butzer, and Tim Beach, Eds.), University of Texas, Austin, TX, 2008.**

1. Dedication; **P.F. Hudson** and **T. Beach**; pp. vii.
2. The 39th Annual Binghamton Geomorphology Symposium, Austin, Texas, October 9-11, 2008: Biographical Sketches of Invited Speakers; pp. ix – xi.
3. Fluvial Deposits and Environmental History: Scope and Context of the 39th Annual BGS; **P.F. Hudson**, **K.W. Butzer**, and **T. Beach**; pp. xiii-xv.
4. Fluvial Deposits and Environmental History: Synthesis; **P.F Hudson**, **K.W. Butzer**, and **T. Beach**; pp. xvii-xx.
5. Paleoflood Hydrology: Origin, Progress, and Prospects; **Victor R. Baker**; pp. 1-13.
6. Late Quaternary Hydroclimatology of a Hyper-Arid Andean Watershed: Climate Change, Floods, and Hydrologic Responses to the El Niňo-Southern Oscillation in the Atacama Desert; **F.J. Magilligan**, **P.S. Goldstein**, **G.B. Fisher**, **B.C. Bostick**, and **R.B. Manners**; pp. 14-32.
7. Paleohydrological Implications of Late Quaternary Fluvial Deposits in and Around Archaeological Sites in Syria; **Takashi Oguchi**, **Kazuaki Hori**, and **Chiaki T. Oguchi**; pp. 33-43.
8. Glacial Activity and Catchment Dynamics in Northwest Greece: Long-Term River Behaviour and the Slackwater Sediment Record for the Last Glacial to Interglacial Transition; **J.C. Woodward**, **R.H.B. Hamlin**, **M.G.Macklin**, **P.D. Hughes**, and **J. Lewin**; pp. 44-67.
9. Paleoflood and Floodplain Records from Spain: Evidence for Long-Term Climate Variability and Environmental Changes; **G. Benito**, **V.R. Thorndycraft**, **M. Rico**, **Y. Sánchez-Moya,** and **S. Sopeňa**; pp. 68-77.
10. A Revised Holocene Geochronology for the Lower Mississippi Valley: **Richard H. Kesel**; pp. 78-89.
11. Late Quaternary Climates and River Channels of the Atlantic Coastal Plain, Southeastern USA**; David S. Leigh**; pp. 90-108.
12. Alluvial Evidence for Major Climate and Flow Regime Changes During the Middle and Late Quaternary in Eastern Central Australia; **Gerald C. Nanson**, **David M. Price**, **Brian G. Jones**, **Jerry C. Maroulis**, **Maria Coleman**, **Hugo Bowman**, **Timothy J. Cohen**, **Timothy J. Petsch**, and **Joshua R. Larsen**; pp. 109-129.
13. Patterns of Anabranching Channels: The Ultimate End-Member Adjustment of Mega Rivers; **Edgardo M. Latrubesse**; pp. 130-145.
14. Understanding the Impacts of Late Quaternary Climate Change in Tropical and Sub-Tropical Regions; **Michael F. Thomas**; pp.146-158.
15. Distinguishing Allogenic from Autogenic Causes of Bed Elevation Change in Late Quaternary Alluvial Stratigraphic Records; **J. Michael Daniels**; pp. 159-171.
16. Scale Linkage and Contingency Effects of Field-Scale and Hillslope-Scale Controls of Long-Term Soil Erosion: Anthropogeomorphic Sediment Flux in Agricultural Loess Watersheds of Southern Germany; **Peter Houben**; pp. 172-191.
17. The History of Soil Erosion and Fluvial Deposits in Small Catchments of Central Europe: Deciphering the Long-Term Interaction Between Humans and the Environment – A Review; **Markus Dotterweich**; pp. 192-208.
18. Flood Management Along the Lower Mississippi and Rhine Rivers (The Netherlands) and the Continuum of Geomorphic Adjustment; **Paul F. Hudson**, **Hans Middelkoop** and **Ester Stouthamer**; pp. 209-236.
19. Soil Geomorphology and “Wet” Cycles in the Holocene record of North-Central Mexico; **Karl W. Butzer**, **James T. Abbott**, **Charles D. Frederick**, **Paul H. Lehman**, **Carlos E. Cordova**, and **John F. Oswald**; pp. 237-277.
20. Geoarchaeology, the Four Dimensional (4D) Fluvial Matrix and Climatic Causality; **A.G. Brown**; pp. 278-297.
21. The Impact of Environmental Change and Human Land Use on Alluvial Valleys in the Loess Plateau of China During the Middle Holocene; **Arlene M. Rosen**; pp. 298-307.
22. Human and Natural Impacts o Fluvial and Karst Depressions of the Maya Lowlands; **Timothy Beach**, **Sheryl Luzzadder-Beach**, **Nicholas Dunning**, and **Duncan Cook**; pp. 308-331.
23. Alluvial Chronologies and Archaeology of the Gila River Drainage Basin, Arizona; **Michael R. Waters**; pp. 332-341.
24. Buried Paleoindian-Age Landscapes in Stream Valleys of the Central Plains, USA; **Rolfe D. Mandel**; pp. 342-361.
25. Landscape evolution, Alluvial Architecture, Environmental History, and the Archaeological Record of the Upper Mississippi River Valley; **E. Arthur Bettis III**, **David W. Benn**, and **Edwin R. Hajic**; pp. 362-377.
26. Impact of the Alluvial Style in the Geoarcheology of Stream Valleys; **Margaret J. Guccione;** pp. 378-401.
27. Challenges for a Cross-Disciplinary Geoarchaeology: The Intersection Between Environmental History and Geomorphology; **Karl W. Butzer**; pp. 402-411.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 101, Nos.1-2, 2008)

**Binghamton Geomorphology Symposium 40 – Geomorphology and Vegetation: Interactois, Dependencies, and Feedback Loops (W. Cully Hession, T. Wynn, L. Resler, and J. Curran) Virginia Tech, Blacksburg, VA, 2009.**

1. Preface: Geomorphology and Vegetation: Interactions, Dependencies, and Feedback Loops; **W. Cully Hession, Theresa M. Wynn**, **Joanna C. Curran**, and **Lynn M. Resler**; pp. 203-205.
2. Geomorphology and Vegetation on Hillslopes: Interactions, Dependencies, and Feedback Loops; **Richard A. Marston**; pp. 206-217.
3. Biogeomorphic Relationships Between Slope Processes and Globular *Grimmia* Mosses in Haleakala’s Crater (Maui, Hawai’i); **Francisco L. Pérez;** pp. 218-235.
4. Land Degradation in Drylands: Interactions Among Hydrologic-Aeolian Erosion and Vegetation Dynamics; **Sujith Ravi**, **David R. Breshears**, **Travis E. Huxman**, and P**aolo D’Odorico;** pp. 236-245.
5. The Implications of Geology, Soils, and Vegetation on Landscape Morphology: Inferences from Semi-Arid Basins with Complex Vegetation Patterns in Central New Mexico**; Omer Yetemen**, **Erkan Istanbulluoglu**, and **Enrique V. Vivoni**; pp. 246-263.
6. Redwoods, Restoration, and Implications for Carbon Budgets; **Mary Ann Madej**; pp. 264-273.
7. Fluvial Processes and Vegetation – Glimpses of the Past, the Present, and Perhaps the Future; **W.R. Osterkamp** and **C.R. Hupp**; pp. 274-285.
8. Hydrodynamics of Flow Through Double Layer Rigid Vegetation; **D. Liu**, **P. Diplas**, **C.C. Hodges**, and **J.D. Fairbanks**; pp. 286-296.
9. Fire, Floods, and Woody Debris: Interactions Between Biotic and Geomorphic Processes; **Jacob Bendix** and **C. Mark Cowell**; pp. 297-304.
10. Logjam Controls on Channel: Floodplain Interactions in Wooded Catchments and Their Role in the Formation of Multi-Channel Patterns; **D.A. Sears**, **C.E. Millington,** **D.R. Kitts**, and **R. Jeffries**; pp. 305-319.
11. Mobility of Large Woody Debris (LWD) Jams in a Low Gradient Channel; **Joanna C. Curran**; pp. 320-329.
12. Riparian Reforestation and Channel Change: How Long Does it Take? **Maeve McBride**, **W. Cully Hession**, and **Donna M. Rizzo**; pp. 330-340.
13. On the Retreat of Forested, Cohesive Riverbanks; **Jim Pizzuto**, **Michael O”Neal,** and **Stephanie Stotts**; pp. 341-352.
14. Hydrologic and Hydraulic effects of riparian Root Networks on Streambank Stability: Is Mechanical Root-Reinforcement the Whole Story; **Natasha Pollen-Bankhead** and **Andrew Simon**; pp. 351-362.
15. Flow and Deposition in and Around a Finite Patch of Vegetation; **Lijun Zong** and **Heidi Nepf**; pp. 363-372.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 115, Nos. 3-4, 2010)

**Binghamton Geomorphology Symposium 41- Geospatial Technologies and Geomorphological Mapping (L.A. James, M.P. Bishop, and S.J. Walsh), University of South Carolina, Columbia, SC, 2010.**

1. Geospatial Technologies and Geomorphological Mapping; **L. Allan James**, **Stephen J. Walsh**, and **Michael P. Bishop**; pp. 1-4.
2. Geospatial Technologies and Digital Geomorphological Mapping: Concepts, Issues, and Research; **Michael P. Bishop, L. Allan James**, **John F. Shroder, Jr**., and **Stephen J. Walsh;** pp. 5-26.
3. Taking the Measure of a Landscape: Comparing a Simulated and a Natural Landscape in the Virginia Coastal Plain; **Alan D. Howard** and **Heather E. Tierney**; pp.27-40.
4. Mapping Surface Mineralogy Using Imaging Spectrometry; **Fred A. Kruse**; pp. 41-56.
5. Landform Characterization using Geophysics – Recent Advances, Application, and Emerging Tools; **Remke L. Van Dam**; pp.57-73.
6. Making Riverscapes real; **Patrice Carbonneau**, **Mark A. Fonstad**, **W. Andrew Marcus**, and **Stephen J. Dugdale**; pp.74-86.
7. Snow Cover, Snowmelt Timing and Stream Power in the Wind River Range, Wyoming; **Dorothy K. Hall**, **James L. Foster**, **Nicolo E. DiGirolamo**, and **George A. Riggs**; pp. 87-93.
8. Geomorphometry and Landform Mapping: What is a Landform? **Ian S. Evans**; pp. 94-106.
9. Digital Terrain Modeling; **John P. Wilson**; pp. 107-121.
10. Scientific Visualization of Landscapes and Landforms; **Helen Mitasova**, **Russell S. Harmon**, **Katherine J. Weaver**, **Nathan J. Lyons**, and **Margery F. Overton**; pp. 122-137.
11. Mapping Coastal Morphodynamics with Geospatial Techniques, Cape Henry, Virginia, USA; **Thomas R. Allen**, **George F. Oertel**, and **Paul A. Gares**; pp.

138-149.

1. Synchronization and Scale in Geomorphic Systems; **Jonathan D. Phillips**; pp. 150-158.
2. Ecosystem Processes at the Watershed Scale: Mapping and Modeling Ecohydrological Controls of Landslides; **Lawrence E. Band**, **T. Hwang**, **T.C. Hales**, **James Vose**, and **Chelcy Ford**; pp. 159-167.
3. The Influence of Mechanical Properties on the Link Between Tectonic and Topographic Evolution; **Peter O. Koons**, **Phaedra Upton**, and **Adam D. Barker**; pp. 168-180
4. Geomorphic Change Detection Using Historic Maps and DEM Differencing: The Temporal Dimension of Geospatial Analysis; **L. Allan James**, **Michael E. Hodgson**, **Subhajit Ghoshal**, and **Mary Megison Latiolais**; pp. 181-198.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 137, No. 1, 2012)

**Binghamton Geomorphology Symposium 42 – Zoogeomorphology & Ecosystem Engineering (David R. Butler and Carol F. Sawyer, Eds.) University of South Alabama, Mobile, Alabama, 2011.**

1. Introduction to the Special Issue – Zoogeomrphology and Ecosystem engineering; **David R. Butler** and **Carol F. Sawyer**; pp. 1-5.
2. Microbial Geomorphology: A Neglected Link Between Life and Landscape; **Heather A. Viles**; pp. 6-16.
3. Reconceptualising the Role of Organisms in the Erosion of Rock Coasts: A New Model; **Larissa A. Naylor**, **Martin A. Coombes**, and **Heather A. Viles**; pp. 17-30.
4. Biologic Modifiers of Marine Benthic Seascapes: Their Role as Ecosystem Engineers; **Peter S. Meadows**, **Azra Meadows,** and **John M.H. Murray**; pp. 31-48.
5. Geomorphological Implications of engineering Bed Sediments by Lotic Animals; **Bernard Statzner**; pp. 49-656.
6. Salmonid Influences on Rivers: A Geomorphic Fish Tail; **Paul DeVries**; pp. 66-74.
7. Ecosystem Engineers and Geomorphological Signatures in Landscapes; **Clive G. Jones;** pp. 75-87.
8. The Role of Large Predators in Maintaining Riparian Plant Communities and River Morphology; **Robert L. Beschta** and **William J. Ripple**; pp. 88-98.
9. Elephants (and Extinct Relatives) as Earth-Movers and Ecosystem Engineers; **Gary Haynes**; pp. 99-107.
10. Evidence for and Geomorphologic Consequences of a Reptilian Ecosystem Engineer: The Burrowing Cascade Initiated by the Gopher Tortoise; **A. Kinlaw** and **M. Grasmueck**; pp. 108-121.
11. The Zoogeomorphic Characteristics of Burrows and Burrowing by Nine-Banded Armadillos (*Dasypus Novemcinctus*); **Carol F. Sawyer**, **Donald C. Brinkman**, **Vincent D. Walker**, **Tyler D. Covington** and **Elizabeth A. Stienstraw**; pp. 122-130.
12. Animal Foraging as a Mechanism for Sediment Movement and Soil Nutrient Development: Evidence from the Semi-Arid Australian Woodlands and the Chihuahuan Desert; **David J. Eldridge**, **Terry B. Koen**, **Aaron Killgore**, **Niki Huang,** and **Walter G. Whitford**; pp. 131-141.
13. Interactions Between Soil Biota and the Effects on Geomorphological Features; **Beryl Zaitlin** and **Masaki Hayashi**; pp. 142-152.
14. Post-Speleogenetic Biogenic Modification of Gomantong Caves, Sabah, Borneo; **Joyce Lundberg** and **Donald A. McFarlane**; pp. 153-168.
15. Modern Warfare as a Significant Form of Zoogeomorphic Disturbance Upon the Landscape; **Joseph P. Hupy** and **Thomas Koehler**; pp. 169-182.
16. The Impact of Climate Change on Patterns of Zoogeomorphologcal Influence: Examples from the Rocky Mountains of the Western U.S.A.; **David R. Butler**; pp. 183-191.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 157-158, No. 1, 2012)

**Binghamton Geomorphology Symposium 43 – The Field Tradition in Geomorphology (Carl J. Legleiter and Richard A. Marston, Eds.) Jackson Hole, Wyoming, 2012.**

1. Introduction to the Special Issue: The Field Tradition in Geomorphology; **Carl J. Legleiter** and **Richard A. Marston**; pp. 1-8.
2. Faith in Floods: Field and Theory in Landscape Evolution Before Geomorphology; **David R. Montgomery**; pp. 9-19.
3. Geomorphology: Perspective on Observation, History and the Field Tradition; **John D. Vitek**; pp. 20-33.
4. Geomorphology in Context: Dispatches from the Field: **Carol P. Harden**; pp. 34-41.
5. The Field Tradition in Mountain Geomorphology: **David R. Butler**; pp. 42-49.
6. The Complexity of the Real World In the Context of the Field Tradition; **Ellen Wohl;** pp. 50-58.
7. The Role of Fieldwork in Rock Decay Research: Case Studies from the Fringe: **Ronald I. Dorn**, **Steven J. Gordon,** **Casey D. Allen, Niccole Cerveny, John C. Dixon,** **Kaelin M. Groom**, **Kevin Hall, Emma Harrison**, **Lisa Mol**, **Thomas R. Paradise**, **Paul Summer**, **Tyler Thompson** and **Alice V. Turkington**; pp. 59-74.
8. The Impact of Local Geochemical Variability on Quantifying Hillslope Soil Production and Chemical Weathering; **Arjun M. Heimsath** and **Benjamin C. Burke**; pp. 75-88.
9. Interplay Between Field Observations and Numerical Modeling to Understand Temporal Pulsing of tree root Throw Processes, Canadian Rockies, Canada; **Y.E. Martin**, **E.A. Johnson**, and **O. Chaikina**; pp.89-105.
10. Mass Movements and Tree rings: A Guide to Dendrogeomorphic Field Sampling and Dating; **Markus Stoffel**, **David R. Butler**, and **Christophe Corona**; pp. 106-120.
11. Tracing River Gravels: Insights into Dispersion from a Long-Term Field Experiment; **J.K. Haschenburger**; pp. 121-131.
12. Spatial and Temporal Patterns in Channel Change on the Snake River Downstream from Jackson Lake Dam, Wyoming; **Nicholas C. Nelson**, **Susannah O. Erwin**, and **John C. Schmidt**; pp. 132-142.
13. Geomorphology Within the Interdisciplinary Science of Environmental Flows; **Kimberly M. Meitzen**, **Martin W. Doyle**, **Martin C. Thoms**, and **Catherine E. Burns**; pp 143-154.
14. Multi-Scale Factors Controlling the Pattern of Floodplain Width at a Network Scale: The Case of the Rhône Basin, France; **Bastiaan Notebaert** **and Hervé Piégay**; pp. 155-171.
15. “You Are HERE”: Connecting the Dots with Airborne Lidar for Geomorphic Fieldwork; **Joshua J. Roering**, **Benjamin H. Mackey**, **Jill A. Marshall**, **Kristin E. Sweeney**, **Natalia I. Deligne**, **Adam M. Booth**, **Alexander L. Handwerger**, and **Corina Cerovski-Darriau**; pp. 172-183.
16. Refocusing Geomorphology: Field Work in Four Acts; **Michael Church**; pp. 184-192.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 200, No. 1, 2013)

**Binghamton Geomorphology Symposium 44 – Coastal Geomorphology and Restoration (Nancy L. Jackson, Karl F. Nordstrom, Rusty Feagin and William K. Smith, Eds.) New Jersey Institute of Technology, Newark, New Jersey, 2013.**

1. Coastal Geomorphology and Restoration; **Nancy L. Jackson**, **Karl F. Nordstrom**, **Rusty A. Feagin** and **William K. Smith**; pp. 1-7.
2. Storms, Shoreface Morphodynamics, Sand Supply, and the Accretion and Erosion of Coastal Dune Barriers in the Southern North Sea: **Edward J. Anthony**; pp. 8-21.
3. Beach Morphodynamics and Types of Foredune Erosion Generated by Storms Along the Emilia-Romagna Coastline, Italy; **Clara Armaroli**, **Edoardo Grottoli**, **Michael D. Harley**, and **Paolo Clavola**; pp.22-35.
4. Beach Changes from Sediment Delivered by Streams to Pocket Beaches During a Major Flood: **Enzo Pranzini**, **Valentina Rosas**, **Nancy L. Jackson**, and **Karl F. Nordstrom**; pp. 36-47.
5. Alongshore Variation in the Morphology of Coastal Dunes: Implications for Storm Response; **Chris Houser**; pp. 48-61.
6. Impacts of Hurricane Ike on the Beaches of the Bolivar Peninsula, TX, USA: **Douglas J. Sherman**, **Billy U. Hales**, **Michael K. Potts**, **Jean T. Ellis,** **Hongxing Liu**, and **Chris Houser**; pp. 62-81.
7. Mesoscale Geomorphic Change on Low Energy Barrier Islands in Chesapeake Bay, U.S.A.; **J. Andrew G. Cooper**, pp. 82-94.
8. Beyond Beach Width: Steps Toward Identifying and Integrating Ecological Envelopes with Geomorphic Features and Datums for Sandy Beach Ecosystems; **Jenifer E. Dugan**, **David M. Hubbard**, and **Brenna J. Quigley**; pp. 95-105.
9. Global Patterns in Sandy Beach Macrofauna: Species Richness, Abundance, Biomass and Body Size; **Omar Defeo** and **Anton McLachlan**; pp. 106-114.
10. Ecomorphodynamic Feedbacks and Barrier Island response to Disturbance: Insights from the Virginia Barrier Islands, Mid-Atlantic Bight, USA; **Catherine W.V. Wolner**, **Laura J. Moore**, **Donald R. Young**, **Steven T. Brantley**, **Spencer N. Bissett**, and **Randolph A. McBride**; pp. 115-128.
11. Change in Distribution and Composition of Vegetated Habitats on Horn Island, Mississippi, Northern Gulf of Mexico, in the Initial Five Years Following Hurricane Katrina; **K.L. Lucas** and **G.A. Carter**; pp. 129-137.
12. Conceptual Models of the evolution of Transgressive Dune Field Systems; **Patrick A. Hesp**; pp. 138-149.
13. Active Fault Motion in a Coastal Wetland: Matagorda, Texas; **R.A. Feagin**, **K.M. Yeager**, **C.A. Brunner**, and **J.G. Paine**; pp. 150-159.
14. Geomorphic and Human Influence on Large-Scale Coastal Change; **Cheryl J. Hapke**, **Meredith G. Kratzmann**, and **Emily A. Himmelstoss**; pp. 160-170.
15. Popham Beach, Maine: An Example of Engineering Activity That Saved Beach Property Without Harming the Beach; **Joseph T. Kelley**; pp. 171-178.
16. Removing Shore Protection Structures to Facilitate Migration of Landforms and Habitats on the Bayside of a Barrier Spit; **Karl F. Nordstrom** and **Nancy L. Jackson**; pp. 179-191.
17. Assessing Significant Geomorphic Changes and Effectiveness of Dynamic Restoration in a Coastal Dune Ecosystem; **Ian J. Walker**, **Jordan B.R. Eamer**, and **Ian B. Darke**; pp. 192-204.
18. Dynamic Dune Management, Integrating Objectives of Nature Development and Coastal Safety: Examples from the Netherlands; **Sebastian M. Arens**, **Jan. P.M. Mulder**, **Quirinus L. Slings**, **Luc H.W.T. Geelen**, and **Petra Damsma**; pp. 205-213.
19. Linking Restoration Ecology with Coastal Dune Restoration; **D. Lithgow**, **M.I. Martínez**, **J.B. Gallego-Fernández, P.A. Hesp**, **P. Flores**, **S. Gachuz**, **N. Rodríguez-Revelo**, **O. Jiménez-Orocio**, **G. Mendoza-González**, and **L.L. Alvarez-Molina**; pp. 214-224.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 199, No. 1, 2013)

**Binghamton Geomorphology Symposium 45 – Planetary Geomorphology (Devon Burr, Alan Howard, and Doug Jerolmack, Eds.) University of Tennessee, Knoxville, TN, 2014.**

1. Introduction to the Special Issue: Planetary Geomorphology; **Devon M. Burr** and **Alan D. Howard**; pp. 1-7.
2. Planetary Geomorphology: Some Historical/Analytical Perspectives: **V.R. Baker**; pp. 8-17.
3. Constraining Geologic Properties and Processes Through the Use of Impact Craters; **Nadine G. Barlow**; pp. 18-33.
4. A Field Investigation of the Basaltic Ring Structures of the Channeled Scabland and the Relevance to Mars; **Laszlo P. Keszthelyi** and **Windy L. Jaeger**; pp. 34-43.
5. Multi-Spatial Analysis of Aeolian Dune-Field Patterns; **Ryan C. Ewing**, **George D. McDonald**, and **Alex G. Hayes**; pp. 44-53
6. Aeolian Processes as Drivers of Landform Evolution at the South Pole of Mars; **Isaac B. Smith,** **Aymeric Spiga**, and **John W. Holt**; pp. 54-69.
7. A Hydrologic Continuum in Permafrost Environments: The Morphological Signatures of Melt-Driven Hydrology on Earth and Mars; **Joseph Levy**; pp. 70-82.
8. Paleohydrology of Eberswalde Crater, Mars; **Rossman P. Irwin III**, **Kevin W. Lewis,** **Alan D. Howard**, and **John A. Grant**; pp. 83-101.
9. River Meandering on Earth and Mars: A Comparative Study of Aeolis Dorsa Meanders, Mars and Possible Terrestrial Analogs of the Usuktuk River, AK, and the Quinn River, Nevada; **Yo Matsubara**, **Alan D. Howard**, **Devon M. Burr**, **Rebecca M.E. Williams**, **William E. Dietrich** and **Jeffery M. Moore**; pp. 102-120.
10. Channel Slope Reversal Near the Martian Dichotomy Boundary: Testing Tectonic Hypotheses; **Alexandra Lefor**t, **Devon M. Burr**, **Francis Nimmo**, and **Robert E. Jacobsen;** pp. 121-136.
11. An Introduction to the Data and Tools of Planetary Geomorphology; **Ross A. Beyer**; pp. 137-145.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 240, No. 1, 2015)

**Binghamton Geomorphology Symposium 46 – Laboratory Experiments in Geomorphology (Sean J. Bennett, Peter Ashmore, and Cheryl McKenna Neuman, Eds.) SUNY-Buffalo, NY, 2015.**

1. Transformative Geomorphic Research Using Laboratory Experimentation; **Sean J. Bennett**, **Peter Ashmore** and **Cheryl McKenna Neuman**; pp. 1-8.
2. Scaling and Design of Landslide and Debris-Flow Experiments; **Richard M. Iverson**; pp. 9-20.
3. Taking the River Inside: Fundamental Advances from Laboratory Experiments in Measuring and Understanding Bedload Transport Processes; **E.M. Yager**, **M. Kenworthy**, and **A. Monsalve**; pp. 21-32.
4. New Insights into the Mechanics of Fluvial Bedrock Erosion Through Flume Experiments and Theory; **Michael P. Lamb**, **Noah J. Finnegan**, **Joel S. Scheingross,** and **Leonard S. Sklar;** pp. 33-55**.**
5. Swiftness of Biomorphodynamics in Lilliput-to Giant-Sized Rivers and Deltas; **Maarten G. Kleinhans**, **Christian Braudrick**, **Wout M. van Dijk**, **Wietse I. van de Lageweg**; pp.56-73.
6. Laboratory Studies of Aeolian Sediment Transport Processes on Planetary Surfaces; **Keld R. Rasmussen**, **Alexandre Valance**, and **Jonathan Merrison**; pp. 74-94.
7. Submarine Channel Flow Processes and Deposits: A Process-Product Perspective; **Jeff Peakall** and **Esther J. Sumner**; pp. 98-120.
8. Experiments on the Dynamics and Sedimentary Products of Glacier Slip; **Neal R. Iverson** and **Lucas K. Zoet**; pp. 121-134.
9. Experimental Alluvial Fans: Advances in Understanding of Fan Dynamics and Processes; **Lucy E. Clarke**; pp. 135-145.
10. Experimental Modelling of Tectonics-Erosion-Sedimentation Interactions in Compressional, Extensional, and Strike-Slip Settings; **Fabien Graveleau**, **Vincent Strak**, **Stéphane Dominguez**, **Jacques Malavielle**, **Marina Chatton**, **Isabelle Manighetti** and **Carol Petit**; pp. 146-168.
11. Real time Measurements of Sediment Transport and Bed Morphology During Channel Altering Flow and Sediment Transport Events; **Joana Crowe Curran**, **Kevin A. Waters**, and **Kristen M. Cannatelli**; pp. 169-179.
12. Data Management, Sharing, and Reuse in Experimental Geomorphology; Challenges, Strategies, and Scientific Opportunities; **Leslie Hsu**, **Raleigh L. Martin**, **Brandon McElroy**, **Kimberly Litwin-Miller**, and **Wonsuck Kim**; pp.180-189.
13. The Landscape evolution Observatory: A Large-Scale Controllable Infrastructure to Study Coupled Earth-Surface Processes; **Luka A. Pangle, Stephen B. DeLong, Nate Abramson, John Adams, Greg A. Barron-Gafford, David D. Breshears, Paul D. Brooks, Jon Chorover, William E. Dietrich, Katerina Dontsova, Matej Durcik, Javier Espeleta, T.P.A. Ferre, Regis Ferriere, Whitney Henderson, Edward A. Hunt, Travis E. Huxman, David Millar, Brendan Murphy, Guo-Yue Niu, Mitch Pavao-Zuckerman, Jon D. Pelletier, Craig Rasmussen, Joaquin Ruiz, Scott Saleka, Marcel Schaap, Michael Sibayan, Peter A. Troch, Markus Tuller, Joost van Haren, and Xubin Zeng**; pp. 190-203.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 244, No. 2, 2015)

**Binghamton Geomorphology Symposium 47 - Connectivity in Geomorphology (Ellen Wohl, Sara Rathburn, and Frank Magilligan, Eds.) Colorado State University, Fort Collins, CO, 2016.**

1. Introduction to the Special Issue: Connectivity in Geomorphology; **Ellen Wohl**, **Francis J. Magilligan**, and **Sara L. Rathburn**; pp 1-5.
2. Tributary Connectivity, Confluence Aggradation and Network Biodiversity; **Stephen P. Rice**; pp. 6-16.
3. Sediment Pulse Evolution and the Role of Network Structure; **Karen B. Gran** and **Jonathan A. Czuba**; pp. 17-30.
4. The Problem of Predicting the Size Distribution of Sediment Supplied by Hillslopes to Rivers; **Leonard S. Sklar**, **Clifford S. Riebe**, **Jill A. Marshall**, **Jennifer Genetti**, **Shirin Leclere**, **Clare L. Lukens**, and **Viviane Merces**; pp. 31-39.
5. The Delta Connectome: A Network-Based Framework for Studying Connectivity in River Deltas; **Paola Passalacqua**; pp. 50-62.
6. Hydrologic Connectivity and Implications for Ecosystem Processes – Lessons from Naked Watersheds; **Michael N. Gooseff**, **Adam Wlostowski**, **Diana M. McKnight**, and **Chris Jaros**; pp. 63-71.
7. Modeling the Capacity of Riverscapes to Support Beaver Dams; **William W. Macfarlane**, **Joseph M. Wheaton**, **Nicolaas Bouwes**, **Martha L. Jensen**, **Jordan T. Gilbert,** **Nate Hough-Snee**, and **John A. Shivik**; pp. 72-99.
8. Toward a Conceptual Model Relating Chemical Reaction Fronts to Water Flow Paths in Hills; **Susan L. Brantley**, **Marina I. Lebedeva**, **Victor N. Balashov**, **Kamini Singha**, **Pamela L. Sullivan** and **Gary Stinchcomb**; pp. 100-117.
9. Climate Regulates the Erosional Carbon Export from the Terrestrial Biosphere; **Robert G. Hilton**; pp. 118-132.
10. Hydrologic Connectivity as a Framework for Understanding Biogeochemical Flux Through Watersheds and Along Fluvial Networks; **Tim Covino**; pp. 133-144.
11. Excursions in Fluvial (Dis) Continuity; **Gordon E. Grant**, **Jim O’Conner** and **Elizabeth Safran;** pp. 145-`53.
12. Geomorphology as a first Order Control on the Connectivity of Riparian Ecohydrology; **Daniel Cadol** and **Michael L. Wine**; pp. 154-170.
13. Mapping Longitudinal Stream Connectivity in the North St. Vrain Creek Watershed of Colorado; **Ellen Wohl,** **Sara Rathburn**, **Stephen Chignell**, **Krista Garrett**, **DeAnna Laurel**, **Bridget Livets**, **Annette Patton**, **Rosemary Records**, **Mariah Richards**, **Derek Schook,** **Nicholas A. Sutfin** and **Pamela Wegener**; pp. 171-181.
14. The Social Connectivity of Urban Rivers; **G. Mathias Kondolf** and **Pedro J. Pinto**; pp. 182-196.
15. Within-Catchment Variability in Landscape Connectivity Measures in the Garang Catchment, Upper Yellow River; **Tami Nicoll** and **Gary Brierley**; pp. 197-209.
16. Sediment Export, Transient Landscape Response and Catchment-Scale Connectivity, Following Rapid Climate Warming and Alpine Glacier Recession; **Stuart N. Lane**, **Maarten Bakker**, **Chrystelle Gabbud**, **Natan Micheletti**, and **Jean-Noël Saugy;** pp. 210-227.
17. The Waterfall Paradox: How Knickpoints Disconnect Hillslope and Channel Processes, Isolating Salmonid Populations in Ideal Habitats; **Christine May**, **Josh Roering,** **Kyle Snow**, **Kitty Griswold**, and **Robert Gresswell**; pp. 228-236.
18. A Conceptual Connectivity Framework for Understanding Geomorphic Change in Human-Impacted Fluvial Systems; **Ronald E. Poeppl**, **Saskia D. Keesstra**, and **Jerry Maroulis**; pp. 237-250.
19. Toward A Unifying Constitutive Relation for Sediment Transport Across Environments; **Morgane Houssais** and **Douglas J. Jerolmack**; pp. 251-264.
20. Modelling Long Term Basin Scale Sediment Connectivity, Driven by Spatial Land Use Changes; **Tom J. Coulthard** and **Marco J. Van De Wiel**; pp. 265-281.

(Published by Elsevier, Amsterdam as *Geomorphology* Vol 277, No. 1, 2017)

**Binghamton Geomorphology Symposium 48 – Resilience and Bio-Geomorphic Systems (David R. Butler, Jason P. Julian, Kimberly M. Meitzen, and Martin Thoms, Eds.) Texas State University, San Marcos, TX, 2017.**

1. Bio-geomorphology and Resilience Thinking: Common Ground and Challenges; **Martin C. Thoms**, **Kimberly M. Meitzen**, **Jason P. Julian,** and **David R. Butler**; pp. 1-7.
2. What do You Mean ‘Resilient Geomorphic Systems’? **M.C. Thoms**, **H. Piégay** and **M. Parsons**; pp. 8-19.
3. Catastrophic Flood Disturbance and A Community’s Responses to Plant Resilience in the Heart of the Texas Hill Country; **Kimberly M. Meitzen**, **John N. Phillips**, **Thaïs Perkins,** **Aspen Manning** and **Jason Julian**; pp.20-32.
4. The Geomorphology of Wetlands in Drylands: Resilience, Nonresilience, or….? **Stephen Tooth**; 33-48.
5. State-Shifting at the Edge of Resilience: River Suspended Sediment Responses to Land Use Change and Extreme Storms; **Samantha Abbott**, **Jason P. Julian,** **Joannis Kamarinas**, **Kimberly M. Meitzen**, and **John R. Dymond**; pp.49-60.
6. Post-Disturbance Sediment Recovery: Implications for Watershed Resilience; **Sara L. Rathburn**, **Scott M. Shahversian**, and **Sandra E. Ryan**; pp. 61-75.
7. Interdependence of Geomorphic and Ecologic Resilience Properties in a Geomorphic Context; **J. Anthony Stallins** and **Dov Corenblit**; pp. 76-93.
8. Niche Construction within Riparian Corridors. Part I: Exploring Biogeomorphic Feedback Windows of Three Pioneer Riparian Species (Allier River, France); **Borbála Hortobágyi**, **Dov Corenblit**, **Johannes Steiger** and **Jean-Luc Peiry;** pp. 94-111.
9. Niche Construction within Riparian Corridors. Part II: The Unexplored Role of Positive Intraspecific Interactions in *Salicaceae* Species; **Dov Corenblit**, **Virginia Carófano-Gomez**, **Eduardo González**, **Borbála Hortobágyi** and **Irène Till-Bottraud**; pp. 112-122.
10. Incorporating Ecogeomorphic Feedbacks to Better Understand Resiliency in Streams: A Review and Directions Forward; **Carla L. Atkinson**, **Daniel C. Allen**, **Lisa Davis**, and **Zachary L. Nickerson**; pp.123-140.
11. The Influence of Channel Bed Disturbance on Benthis Chorophyll a: A High Resolution Perspective; **Scott B. Katz**, **Caralina Segura**, and **Dana R. Warren**; pp. 141-153.
12. Zoogeomorphology and Resilience Theory; **David R. Butler**, **Faisal Anzah**, **Paepin D. Goff**, and **Jennifer Villa;** pp.154-162.
13. Sex that Moves Mountains: The Influence of Spawning Fish on River Profiles over Geologic Timescales; **Alexander K. Fremier**, **Brian J. Yanites**, and **Elowyn M. Yager**; pp.163-172.
14. Coastal Wetlands, Sea Level, and the Dimensions of Geomorphic Resilience; **Jonathan D. Phillips**; pp. 173-184.
15. Stability and Instability on Maya Lowlands Tropical Hillslope Soils; **Timothy Beach,** **Sheryl Luzzadder-Beach**, **Duncan Cook**, **Samantha Krause** and **Sheila Ward**; pp. 185-208.
16. A Model of Water and Sediment Balance as Determinants of Relative Sea Level Rise in Contemporary and Future Deltas; **Zachary D. Tessler**, **Charles J. Vörösmarty**, **Irina Overeem** and **James P.M. Syvitski**; pp. 209-220.
17. Social-Ecological Resilience and Geomorphic Systems; **Brian C. Chaffin** and **Murray Scown**; pp. 221-230.
18. The Scaling of Urban Surface Water Abundance and Impairment with City Size; **M.K. Steele**;231-241.
19. From Academic to Applied: Operationalising Resilience in River Systems; **Melissa Parsons** and **Martin C. Thoms**; pp. 242-251.

(Published by Elsevier, Amsterdam as Geomorphology Vol. 305, No. 1, 2018)

**Binghamton Geomorphology Symposium 49- Toward Understanding Complexity of Sediment Dynamics in Geomorphic Systems; (Peng Gao, James R. Cooper and John Wainwright, Organizers), Syracuse University, New York, 2018.**

1. Toward understanding complexity of sediment dynamics in geomorphic systems; **Peng Gao, James R. Cooper and John Wainright**, pp. 129-132.

(Published by Elsevier, Amsterdam as Geomorphology, Vol. 330, No. 1, 2019)

**Binghamton Geomorphology Symposium 50 -**