SUMMER INSTITUTE ON EARTH-SURFACE DYNAMICS (SIESD)
INSTRUCTOR SHORT BIOGRAPHIES

KAREN CAMPBELL

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NCED Director, Education
Education:  BA, 1979  Carleton College, MN
            MS, 1993  Simmons College, MA

Coordinates educational workshops and prepares instructional materials for classroom use, supervises
ESTREAM teachers and Earthscapes Teacher Institutes, works closely with Pat Hamilton and Paul Morin
on NCED museum programs.

JACQUES FINLAY

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NCED Principal Investigator
Education:  BS, 1990  University of New Hampshire
            PhD, 2000  University of California, Berkeley

I am broadly interested in the ecology of aquatic ecosystems, and their interaction with surrounding
natural and human altered landscapes. I pursue research questions at many scales and levels of
organization, using experimental, comparative and stable isotope approaches. I am particularly excited by
interdisciplinary, collaborative research that integrates across multiple spatial and temporal scales.
EFI FOULFA-GEORGIOU

Professor, Department of Civil Engineering
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NCED Director, Principal Investigator

Education: 
Diploma CE, 1979 National Technical University of Athens, Greece
MS, 1982 University of Florida, Department of Environmental Engineering
Ph.D. 1985 University of Florida, Department of Environmental Engineering

Research interests are in the area of stochastic modeling and multiscale dynamics of surface hydrologic and geomorphologic processes. Specific areas of research include stochastic modeling of space-time rainfall, rainfall estimation from remote sensors, geomorphologic study of river networks and hydrologic response, multiscale nonlinear interactions and dynamical systems.

GORDON GRANT

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Research Hydrologist, USDA Forest Service

Education: 
BA, 1977 University of Oregon
Ph.D. 1986 Johns Hopkins University

Research Hydrologist, USDA Forest Service Professor (courtesy), Departments of Geosciences, Forest Engineering & Forest Science, Oregon State University Research interests include structure and dynamics of mountain streams; watershed and stream response to changing land use and climate; watershed analysis.
PETER HAWTHORNE

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Graduate Student
Education: BS, 2004 Harvard University

ERKAN ISTANBULLUOGLU

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Assistant Professor
Education: BS, 1996 Uludag University, Turkey
MS, 1998 Uludag University, Turkey
PhD, 2003 Utah State University

Professor Istanbulbulluoglu’s research is highly interdisciplinary and aims to understand the role of climate on ecohydrological and geomorphological response of landscapes, sediment transport, and water balance of large basins. He uses empirical field observations, satellite-derived data, and numerical models to study the landscape system and its response to natural drivers and anthropogenic impacts.
BONNIE KEELER

Accounting for Nature project
Institute on the Environment
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Doctoral Student
Education: MS, 2007 University of Minnesota

Bonnie Keeler is a doctoral student and research assistant with the Accounting for Nature project. Bonnie completed her M.S. in ecology at the University of Minnesota in 2007 and spent two years working on science policy issues and teaching environmental studies and biology before returning to the University to start her Ph.D. in natural resources science and management. She is interested in using GIS and spatially explicit models of ecosystem services to support decision making on land use and conservation.

JESSICA KOZAREK

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Research Associate
Education: BS, 2002 Pennsylvania State University
           MS, 2005 Virginia Tech
           PhD, 2009 Virginia Tech

Jessica Kozarek is the Saint Anthony Falls Laboratory’s new Outdoor Streamlab Research Manager. Research interests include hydraulic modeling of stream systems, the fate and transport of emerging contaminants and stream restoration.
CHRIS PAOLA

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NCED Principal Investigator
Education: BS, 1976 Lehigh University, PA
          MS, 1977 University of Reading, UK
          ScD, 1983 Massachusetts Institute of Technology

Chris Paola is a professor in the Department of Geology and Geophysics, University of Minnesota, Minneapolis, and does research at St. Anthony Falls Laboratory. Prof. Paola has studied fluvial processes for many years and created one of the first models that captured the dynamics and time evolution of fully developed braided streams, a dominant contributor to the fluvial sedimentary record. Furthermore he worked on sediment fractionation in depositional systems, a major factor that drives downstream changes in fluvial morphology and sedimentary character.

GARY PARKER

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NCED Principal Investigator
Education: BS, 1971 Johns Hopkins University, MD
          Ph.D., 1974 University of Minnesota

Major research interests are river mechanics and morphology, sediment transport and two-phase solid fluid flow. Recent research efforts have included downstream grainsize change in gravel rivers, migration of meander bends in sand bed rivers, formation of submarine alluvial fans due to sediment deposition from turbidity currents, evolution of channel cross-sectional shape, and nonlinear erodible bed mechanics. A specific area of interest is the fundamental techniques of fluid mechanics and applied mathematics used to treat interesting geomorphological problems.
MICHAL TAL

Institut de Physique du Globe
Paris, France
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Postdoctoral Researcher

Michal is a former NCED/SAFL graduate student. For her PhD she studied the interactions between riparian vegetation and channel morphology through a series of large-scale flume experiments. Since completing her PhD 3 years ago she has been a postdoc at the Institut de Physique du Globe in Paris, France where she has been carrying out microscale experiments on the transport dynamics of woody debris in braided rivers as well as on meandering. Her interests are in process geomorphology, in particular the dynamic interactions among human activity, biota, and surface processes and timescales of bio-physical interactions.

LUCA VAN DUREN

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Senior Researcher

Education: VWO, 1983 Bisschop Bekkers College
propaedeuse 1985 Radboud Universiteit Nijmegen
MS, 1989 Rijksuniversiteit Groningen
PhD, 1996 Rijksuniversiteit Groningen

At Deltares I am project leader for various projects on nature and ecology, particularly in Zeeland and the Wadden Sea. My specialisation is the relationship between aquatic organisms and fluid dynamics.