#### **Instructors**



**Dr. Matt KONDOLF** is a Professor of Environmental Planning and Geography at the University of California, Berkeley. His research on fluvial geomorphology focuses on environmental river management, influences of land use on rivers, riparian vegetation and channel form interactions, geomorphic influences on habitat for salmon and trout, alternative flood management strategies, and assessment of ecological restoration.

**Dr. Hervé PIÉGAY** is Research Director at the National Centre for Scientific Research (CNRS, Lyon, France). His research interests include contemporary channel changes due to afforestation and damming, bedload transport measurement and floodplain sedimentation, human impacts on channel forms, riparian vegetation growth and plant diversity, remote sensing of fluvial features and grain morphometry, dynamics of large wood, and river restoration and management. He has won numerous awards and published more than 80 articles in peer-reviewed journals and edited books.

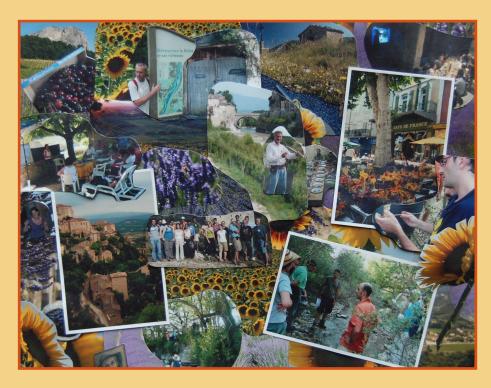


Other instructors and field trip leaders will include: David Sear, University of Southampton; Walter Binder, Bavarian Interior Ministry, ret.; Simon Dufour, Université d'Ain Marseille; Frederic Liébault, CEMAGREF, Grenoble; Alastair Driver, Environment Agency, UK; Nicolas Lamouroux, Université de Lyon 1; Anne-Julia Rollet, l'Universite du Caen Basse-Normandie; Laurent Schmitt, Université de Lyon 2; and Mark Tompkins, CH2MHill.



### Venue

The course is held at Ecole Normale Supérieure de Lyon (ENS Lyon), and the Institut Beaumont, a restored 18th-century farmhouse near Mount Ventoux, near the northern Provençal pre-Alpine tributaries of the Rhône.



## **RIVER RESTORATION:**

# Fluvial-Geomorphic & Ecological Tools

FIVE-DAY SHORTCOURSE JUNE 7 - 11, 2010

PROVENCE, FRANCE

This course provides training in fluvialgeomorphic and ecological tools to assess the status of rivers, identify ongoing trends and their causes, and develop programs to reverse ecological decline and restore fluvial processes to improve habitats and water quality.

The course emphasizes understanding geomorphic process as a sound basis for planning and designing river restoration projects. It covers general principles and case studies from a wide range of environments, with specific applications and field visits to Mediterranean and mountain environments. The course draws heavily on instructors' diverse experiences in France, elsewhere in the European Union, North America, and Asia.

It is designed for land and river managers, landscape architects, planners, ecologists, engineers, and other professionals interested in river restoration.

Course materials are in English and include *Tools in Fluvial* Geomorphology (John Wiley & Sons 2003), a CD with 40+ relevant papers and manuals, printed lecture notes and field trip quides.



www.institutbeaumont.com. Please email a completed registration form, or any questions, to info@institutbeaumont.com.

Tuition is €1,250 per person if registered by March 1, 2010, or €1,400 thereafter, which includes all course materials, lunches, four Provençal dinners, and tasting of excellent wines from the region. Inexpensive lodging is available nearby.







## WWW.INSTITUTBEAUMONT.COM

### **PRELIMINARY SCHEDULE**

Sunday **Arrival in Lyon** 

Dinner at traditional "bouchon" restaurant, Vieux Lyon June 6

(optional, no-host)

Monday **Student Introductions & Lectures, Lyon** 

Overview of river restoration, regional context, and

introduction to Tools in Fluvial Geomorphology

Field Trips: CNRS laboratories (e.g. sedimentology, remote-sensing); constructed side channel on the Rhône River, Pierre Bénite; introduction to problems

on the Lez River, Bollène

Tuesday **Lectures and Field Exercise:** Channel form & June 8 processes, evolution of pre-Alpine rivers, role of vegetation in river systems, and fluvial audits

Field Trip, Toulourenc River: Facies mapping, channel

geometry surveys, interpreting fluvial landforms.

June 9

June 7

Wednesday Lectures: Channel adjustments, hungry water, "espace de liberté," other river management

approaches

Field Trip, Ouvèze River: Canopy cover, dendrochronology, habitat measurements, and discussion on Roman bridge and 1992 flood

**Student Presentations & Discussions** 

Thursday June 10

**Lectures:** Case studies of European & North American river & watershed restoration: urban to

rural, adaptive management

Small-group Field Assessment: Lez River

management & restoration design

Friday June 11 **Student Presentations & Discussions** 

**Lectures:** Implementing restoration projects/ programs, stream restoration trends, UK, EU, US;

prioritizing restoration actions **Optional Trip:** Mount Ventoux

Saturday June 12

**Optional Field Trips near Lyon** 

**Ain River:** Former channel restoration & sediment augmentation; Yzeron River: Urbanization-induced incision & downstream degradation, proposed levee

setback & renaturalization

End at Lyon Part-Dieu rail station