

A VOICE FOR RESEARCH ON THE SEDIMENTARY CRUST, DEEP-TIME AND EARTH-LIFE SYSTEM

WHAT IS STEPPE?

Sedimentary Geology

Time

Environment

Paleontology

Paleoclimatology

Energy

WHAT IS STEPPE?

An NSF-supported consortium whose purpose is to promote multidisciplinary research and education on Earth's deep-time sedimentary crust.

Current Consortium Members:

American Association of Petroleum Geologists (AAPG)

American Geosciences Institute (AGI)

Geological Society of America (GSA)

Geological Society of London (GSL)

Paleontological Society (PS)

Society for Sedimentary Geology (SEPM)



STEPPE FUNDING

NSF - P2C2 (Cooperative Agreement)

Pls Dena Smith (STEPPE - Geological Society of America); Marty Perlmutter (Chevron); Lisa Park Boush (University of Connecticut)

Coordinating Office for Research on the Sedimentary Curst, Deep-Time and the Earth-Life System.

Dates: 03/15/13-02/29/16

Consortium Member Funding – Interns

NSF support for other initiatives

STEPPE BOARD & COMMITTEE STRUCTURE

Board of Directors (16 members)

Executive Committee

Finance Committee

Nominating Committee

Education & Outreach Committee

Cyberinfrastructure Committee

Consortium Membership Committee

Workshop Committee

THE CHALLENGES AND WHY STEPPE

Large and diverse community of researchers – difficult to build teams.

Limited funding resources

THE GOALS

Support Multidisciplinary Research/Education Teams

Solve the big problems

Develop new tools

Support workforce development

Communicate deep-time science

ACCOMPLISHMENTS

Development of Central Information Portal Support New Research Synergies

Education and Outreach Collaboratives

Expand Partnerships

Provide Infrastructure

Sustainability



CENTRAL INFORMATION PORTAL

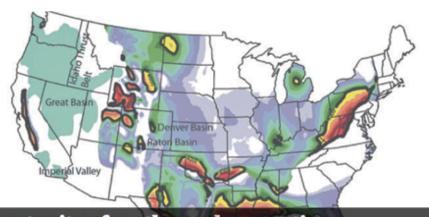
www.steppe.org



A Voice for Research

STEPPE is an NSF-supported consortium whose purpose is to promote multidisciplinary research and education on Earth's deep-time sedimentary crust.

HOME ABOUT RESOURCES CONNECT



An opportunity of geothermal proportions

The Sedimentary Record explores U.S. geothermal energy in sedimentary basins



STEPPE FEATURED RESEARCHER



Check out STEPPE Featured Researcher Nicholas Heavens of Hampton University.

NEWS DIGEST

SELECTED FUNDING DEADLINES

DEEP-TIME BLOG

STEPPE issues workshop 'call for proposals' December 2, 2014

DEC 15 Scholarship Janet Cullen Tanaka Scholarship — Association for Women Geoscientists



Patterns in the fossil record December 1, 2014

f-geothermal-proportions-04212014/

Synthesis and Accessibility

- Database of white papers and reports
- Funding Database
- Events Calendar
- New opportunities

New Content to Inspire and Inform

- Featured Researcher
- Blog Posts
- News Digest
- Online Collaboration Platform: STEPPE Connect!







SUPPORTING NEW RESEARCH SYNERGIES

Support of collaborative groups

- ELT coordinating workshops & symposia
- C4P long-term archive and support
- SedHeat long-term archive and support
- EnDLESE long-term archive and support

SUPPORTING NEW RESEARCH SYNERGIES

Working groups/workshops

"Biological and Environmental Transitions During the Neoproterozoic and Paleozoic."

"Tracking Biotic Change Across the Cretaceous-Paleogene of India."

"ONE-Delta – Synthesizing Observational, Numerical, and Experimental data to unravel the complex dynamics of deltas and margin sequences."

"Increased precipitation extremes in greenhouse conditions; An integrated paleoclimate and anthropogenic perspective."

"Lake Tanganyika: A Miocene-Recent Source-to-Sink Laboratory in the African Tropics."

SUPPORTING NEW RESEARCH SYNERGIES

Infrastructure for Sciences

- Fossil Calibration Advisory Board
- Continental Scientific Drilling Coordinating Office Policy Committee
- Paleobiological Data Consortium Advisory Council,
- EarthCube Cyberinfrastructure for Paleogeosciences Steering Committee
- Many others

BUILDING RESEARCH INFRASTRUCTURE

ePANDDA: Enhancing PAleontological and Neontological Data Discovery API

Funded by NSF – EarthCube

API = Application Programming Interface









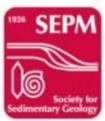


Student Travel Awards to 4th International Paleontological Congress, Mendoza, Argentina

















Student Travel Awards to 2nd International Congress on Stratigraphy (STRATI 2015) and NSF workshop in Graz, Austria.









The University of Kansas Paleontological Institute



Teacher Training in the Field

- Hands-on experience with fossils and key geologic concepts
- Modules developed for middle school classrooms











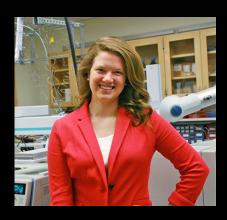
INTERNSHIP PROGRAM

- Science Policy
- Social Media
- Science Communication
- Community Development



Zoe Gentes Oceanography, University of Rhode Island

Lindsey Bowman,
Department of Geology & Geography, West Virginia University



Wassim Benhallam
Department of Geology and Geophysics, University
of Utah





Kathryn Nold Geological Sciences & Anthropology, Indiana University



Erin Leckey,
Department of Geological Sciences, University of Colorado

COMMUNICATING SCIENCE

Informal Education Opportunities

Connecting Partners: Academia, Museums, Amateurs

Science Advocacy

Congressional Visits Day

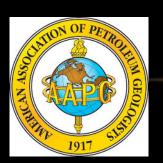


Teachable Moments – In Real Time

Society Journals -> Press -> Classroom

PARTNERSHIPS

- Professional Societies
- Academic Depts.
- Cyberinfrastructure
- Biosciences
- Private/Industry
- Government
- Citizen Science













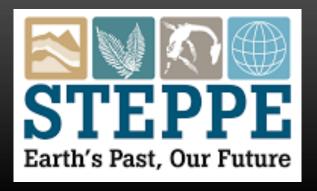


STEPPE FUTURE – GO BIG!

Combine Initiatives

STC, Synthesis Centers, Observatory Networks/Analytic Hubs

- Support of graduate students, post-docs, sabbatical/visiting scholars
- Hackathons and Tool Developments
- Continued Workshops & Longer-term synthetic projects



Promote multidisciplinary research and education on Earth's deep-time sedimentary crust.

Solve the big problems

Develop new tools

Support workforce development

Communicate deep-time science