

GRAND JUNCTION GEOLOGICAL SOCIETY

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MARCH MEETING

Joint meeting with the CMU Geology Club

Wednesday March 27, 2013

7:30 P.M.—Saccomanno Lecture Hall

In the Wubben Science Building

AAPG Distinguished Lecturer

Dr. Ron Blakey, Northern Arizona University

Will Speak on

**“Using Paleogeographic Maps to Portray Phanerozoic
Geologic Paleotectonic History of Western North America”**

Abstract

Paleogeographic maps provide clear, concise pictures of the evolving complex geologic events of Western North America. Time slices are selected to show critical stages in the geologic history thereby providing a continuous view of the evolution of the region and clearly showing sequences of paleogeography and paleotectonics. The maps are particularly effective in demonstrating the geometry and history of terrane accretion and the affects of accretionary events on the growth of Western North America from Devonian to Present. The maps are also powerful tools for comparing varying or contrasting models of various terrane-accretion events and for showing cause and effect across broad geologic provinces. Other maps (isopach, paleogeology, facies, paleocurrent, etc.) can be used in conjunction with paleogeographic maps to further explain the geologic history.

The models presented here are derived and modified from the geologic literature. Data is plotted on basemaps and paleogeography is cloned from digital elevation maps to match the inferred distribution of landforms at given times and places. The paleogeography is shown in palinspastic restoration with reference to present political boundaries. The maps are finished in a fashion to show how paleogeography might have appeared as if seen from space. Colors suggest paleovegetation and inferred paleoclimate. Water depths are shown in shades of blue from evidence presented in the literature and presumed modern analogs. Although maps are assigned a specific geologic age, ranges are given to suggest the interval for which the maps are valid. The resulting series of paleogeographic maps provides a coherent picture of the geologic and tectonic history of Western North America that respects known and inferred geologic rates and geodynamic models.

Open to the Public, Guests are Always Welcome

**GRAND JUNCTION GEOLOGICAL SOCIETY
2013 Paid Up Members, As of 3-11-13**

Abrahamson, David	Schoenstein, Heidi
Allison, Larry	Sokolosky Marilyn
Alpha, Eric	Spangler, Mike
Baltzer, Ed	Trammell, John
Barnes, Joe	Trevena, Art
Brandt, Laurie	Turley, Kyle
Brumbaugh, Richard	Vandersluis, George
Burch, Chuck	Waechter, Noel
Carie, Lee	Wilson, Bill
Cassin, Lee	Wudell, Al
Chenoweth, Bill	
Cohan, Bill	
Cole, Rex	
Cotter, Ed	
Daub, Jerry	
Dayvault, Dick	
Fandrich, Joe	
Genova, Barbara	
Gibbs, Frank	
Goodknight, Craig	
Graham, Mal	
Greenwood, Dan	
Hase, Skip	
Hodge, John	
Hood, Bill	
Hood, Sandy	
Jaquet, Neil	
Johnson, Verner	
Kautz, Randy	
Kirham, Kirk	
Kolb, Ed	
Luebke, Larry	
Mathewson, John	
McCullough, Dave	
Moston, Bob	
Moyer, Larry	
Pilkenton, Bill	
Price, Bennett	
Rasmussen, Don	
Rice, Jim	
Rogers, Nathan	
Smith, Greg	

If our name is not on this list your 2013 dues are now do. Bring your check for \$15 to the next meeting or mail to GJGS PO Box 4045 GJ, CO 81502