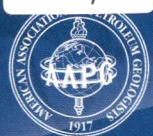


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# AAPG

# BULLETIN

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# AAPG | BULLETIN

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**ON COVER** – The Chalufy outcrop in southeastern France. See related article by Bakke et al. on p. 1395 of this issue of the *Bulletin*. Photo by Ian A. Kane.

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# PREVIEWS

<b>An innovative seismic forward modeling technique</b>	<i>A seismic modeling technique has been developed using outcrop data to decrease the gap in resolution and predictability between subsurface seismic data and outcrop analog data. This study has improved our understanding of possible confined deep-water sandstone termination styles. . . . .</i>	1395
<b>A new model explains peculiar features</b>	<i>Halokinetic rotating faults are extensional fault that have been rotated along the evolution of a salt diapir. When partially filled with salt, they are often misinterpreted in seismic and well data. This appears to be the case in recent exploration in the deep-water regions of the Brazilian margin. . . . .</i>	1421
<b>Rifting and lacustrine basins</b>	<i>This study addresses how tectonic activities influence sequence development and how they control reservoir distribution in lacustrine basins of East China. The distribution of lithology can be predicted from controls on basin evolution as well as sediment supply, transport and deposition. . . . .</i>	1447
<b>A subsurface modeling method on outcrop</b>	<i>An outcrop analog was used to improve subsurface prediction for complex dolomite bodies. The goal of this study was to unravel composite dolomite bodies in a folded area and to produce a true three-dimensional geometric model using the Etoile massif complex ramp anticline. . . . .</i>	1477
<b>Predicting good reservoirs</b>	<i>The Scotian Basin, offshore eastern Canada, was used to test the hypothesis that the source of quartz in sandstones may be a predictor of the availability of medium- to coarse-grained quartz sand from plutonic sources. This study suggests that this hypothesis works in frontier basins. . . . .</i>	1503
<b>Foliation and veins</b>	<i>A combined structural and permeability analysis has been performed on normal faults formed in low-porosity arkosic sandstones under diagenetic conditions similar to those of deeply buried reservoirs. The direction of highest permeability is parallel to the fault and subhorizontal. . . . .</i>	1521
<b>Sampling methodologies evaluated</b>	<i>Sampling methods for fracture network characterization were evaluated. The windows sampling method adequately characterized the statistical properties of fracture networks with the fewest number of samples as any of the methods studied, and it was least sensitive to censoring bias. . . . .</i>	1545
<b>Petroleum in western Greece</b>	<i>Western Greece has important petroleum systems, which are also active in the Ionian Sea. The Ionian Sea also contains oil shale and shale gas reservoirs that can be unconventionally explored. Source rocks include pelagic and hemipelagic deposits, which are rich in marine organic material. . . .</i>	1567