Introduction to Special Issue: Super basins: Selected case studies of the world’s greatest petroleum basins
Charles A. Sternbach and Claudio Bartolini

Tampico-Misantla: A premier super basin in waiting
Alfredo E. Guzmán

The West Siberian Super Basin: The largest and most prolific hydrocarbon basin in the world
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Geological controls on petroleum plays and future opportunities in the North Sea Rift Super Basin
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Historical and emerging super basins of Southeast Asia
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The Western Canada Sedimentary Basin: A confluence of science, technology, and ideas
Paul MacKay and Per Kent Pedersen

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The Tampico-Misantla Basin has the oil and gas resources and all the conditions required to be a super basin. Development of its unconventional resources and exploration with new concepts and technologies would put Mexico back in the list of the top oil producing nations.

This paper offers a historical perspective on exploration history, basin evolution, and some unresolved questions that might lead to new potential in older areas. The future exploration potential is huge, with conventional plays focused on the Yamal Peninsula and the Kara Sea.

Approximately 10 to 20 billion BOE remain to be developed in the North Sea rift. Favorable disposition of geological elements has led to successful development of clastic and carbonate reservoirs, the stratigraphy for which spans the Phanerozoic throughout the rift system.

Southeast Asia offers a diverse set of opportunities from frontier to mature basins, and giant discoveries continue to be made both in the proven and underexplored super basins. Huge potential remains in mature, emerging, and frontier basins with at least 30 billion BOE of prospective resources.

The Western Canada Sedimentary Basin is a vast and prolific hydrocarbon producer. Located 1000 km from the Pacific Ocean, a major weakness of the basin is the difficulty to move the hydrocarbons to world markets. This problem will get worse as additional plays are pursued.
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