50th Anniversary of Plate Tectonics at SIO
May 9-10, 2018
Robert Paine Scripps Forum, Scripps Institution of Oceanography, UC San Diego

May 9th Agenda
At the Robert Paine Scripps Forum

0900-0905: Donna Blackman (SIO)
Welcome Address

0905-0935: Chris Harrison (University of Miami)
SIO, Seafloor Spreading, and the Transition to Plate Tectonics

Advancing Tuzo Wilson’s Theory

0935-1005: Dan McKenzie (Cambridge University)
Tectonics on a Rigid Sphere and Thermal Models of Plates

1005-1025: Discussion
Moderator: Duncan Agnew (SIO)

1025-1040: Coffee Break

1040-1110: Bob Parker (SIO)
Magnetic Anomalies and Crustal Magnetization

1110-1140: Dan Karig (Cornell University)
Back Arc Basins As Seen During the Oceanographic Middle Ages

1140-1200: Discussion
Moderator: Jeff Gee (SIO)

1200-1330: Lunch Break with Informal Specialty Discussions

Observations & Applications of Plate Tectonics

1330-1400: Doug Oldenburg (University of British Columbia)
Thermal and Wax Modeling of Spreading Ridges

1400-1430: David Naar (University of South Florida)
Propagating Rifts Permeating Plate Tectonics: From Continental Breakup to Back Arc Basins

1430-1450: Discussion
Moderator: James Day (SIO)
1450-1505: Coffee Break
1505-1535: John Sclater (SIO) & Miller Lee Bell (Geokinetics)
   Depth versus Age: Bowdler versus Reality
1535-1605: Roger Anderson (Columbia University)
   Gravity, Bathymetry, and Convection
1605-1635: Larry Lawver (UT Austin) & Peter Lonsdale (SIO)
   Heat Flow and Diving in the Gulf of California
1635-1700: Discussion
   Moderator: Adrian Borsa (SIO)

1700-1830: Social Hour & Informal Student Poster Session

Public Lecture
At the Robert Paine Scripps Forum

1830-1930: Keir Becker (University of Miami)
   Plate Tectonics Contributions of the Deep Sea Drilling Project at Scripps

May 10 Agenda
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Implications of Plate Tectonics

0900-0925: Bruce Luyendyk (UC Santa Barbara)
   An Experimental Approach to the Paleocirculation of Ocean Surface Waters:
   Mid-Cretaceous Northern Hemisphere.
0925-0950: Peter Molnar (CU Boulder)
   Plate Tectonics and Ice Ages
0950-1015: Discussion
   Moderator: Jennifer Haase (SIO)
1015-1030: Coffee Break
1030-1100: Tanya Atwater (UC Santa Barbara)
   Southern California Margin Reconstruction
1100-1130: Robert Kieckhefer (Chevron - retired)
   Post-war Marine Geophysics: Russ Raitt Defines the Oceanic Crust
1130-1200: Don Helmberger (Caltech)
   Comments on Waveform Modeling: Plates, LLSPVs, ULVZs, Plumes...
1200-1230: Discussion
    Moderator: John Orcutt (SIO)

1230-1330: Break for Lunch

1330-1530: Women in Geosciences Discussion Panel with:
    Tanya Atwater, Donna Blackman, Cathy Constable, Miriam Kastner, Gabi Laske, Cheryl Peach, & Lisa Tauxe
    Moderator: Jane Willenbring