

CBTH PHASE IV

Caribbean Basins, Tectonics, & Hydrocarbons

NEWSLETTER MAY 2015 VOL.10 NO.2

In this issue...

What's New.....	1
Graduating & New Students.....	3
Awards & Upcoming Meetings.....	4
Recent Publications.....	5
Sponsors.....	7



<http://cbth.uh.edu/>

Contacts:

Dr. Paul Mann
pmann@uh.edu

Dr. Alejandro Escalona
alejandro.escalona@uis.no

cbthproject@gmail.com

Edited by:
Jeff Storms
jeffstormswork@gmail.com

Mailing Address:

312 Science and Research Bldg. 1
Houston, TX 77204
(712) 893-1731



What's New with the CBTH Project in Houston, Texas and Stavanger, Norway



20TH CARIBBEAN GEOLOGICAL CONFERENCE 2015
Port-of-Spain . Trinidad & Tobago, W.I.

20th Caribbean Geological Conference

The Geological Society of Trinidad and Tobago will host the 20th Caribbean Geological Conference on May 17-22, 2015 at the Hyatt Regency Hotel in Port-of-Spain, Trinidad and Tobago. CBTH presenters will include Tricia Alvarez, Shenelle Gomez, and Paul Mann. Paul Mann and Tricia Alvarez will present a one-day conference shortcourse on Sunday, May 17. **Click here** for more information.

AAPG 2015

CBTH students and researchers will be presenting at the 2015 AAPG Annual Conference & Exhibition from May 31 - June 3, 2015 at the Colorado Convention Center in Denver. The CBTH Project will also be hosting its annual AAPG luncheon during the conference on Monday, June 1st at noon at the **Corner Office restaurant** located near the convention center. **Click here** for information on CBTH presentations at AAPG 2015.

AAPG Memoir 108 on Colombia and its offshore area

This volume, edited by Claudio Bartolini (Repsol) and Paul Mann and will be published in the summer of 2015 by AAPG, contains a total of 27 chapters of which 9 are by CBTH students or CBTH allied scientists including Peter Bartok and Carlos Zuluaga. A complete list of articles is available in the "Recent Publications" section.

CBTH PHASE IV

Caribbean Basins, Tectonics, & Hydrocarbons

NEWSLETTER MAY 2015 VOL.10 NO.2

What's New

CBTH invoices for Phase IV, Year 2 mailed to company reps

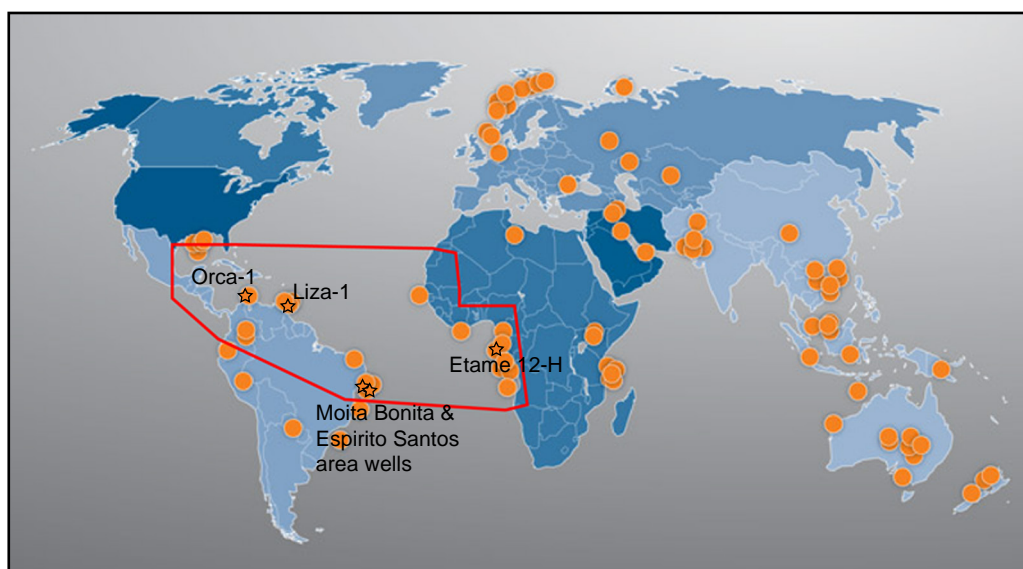
We have sent out invoices covering the coming year. Our current year (Phase IV, Year 1) ends on August 31, 2015. Payment is requested by August 15, 2015. If you are not the person to receive the invoice please let us know.

ExxonMobil discovers oil at offshore Guyana block

ExxonMobil has announced the discovery of oil at the Liza-1 well in the Stabroek Block off the coast of Guyana. A CBTH stratigraphic synthesis and petroleum evaluation of this margin was published in AAPG Bulletin in 2011 by CBTH workers, W. Yang and A. Escalona. For more information, [click here](#).

Petrobras announces gas discovery in Orca well, offshore Colombia

Several in press chapters by CBTH workers in the new AAPG Memoir provide tectonic, structural and stratigraphic information on this area of northern Colombia. For more information on the discovery, [click here](#).



Map modified from AAPG Explorer showing major 2014 oil and gas discoveries (orange circles) with selected 2015 discoveries (orange stars). CBTH study area outlined in red.

CBTH PHASE IV

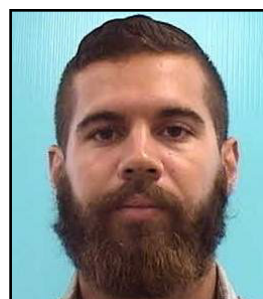
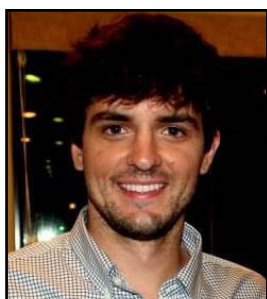
Caribbean Basins, Tectonics, & Hydrocarbons

NEWSLETTER MAY 2015 VOL.10 NO.2

Graduating Students



We have three students graduating this summer: **Bryan Ott** (PhD, Jamaican sector of the offshore Nicaraguan Rise), **Carolina Mejia** (MSc, Structural restoration of reservoirs of Eastern Cordillera of Colombia), and **Travis Tillman** (MSc, Maturity of basins in the northeastern Caribbean).



We have three graduating undergraduate assistants, **Alex Cheney** and **Kherlen Batbayar**, both to attend Colorado School of Mines MSc program, and **Derek Scott**.

New Students

Our new hires this summer include two UH undergraduates, **Callum Byers** and **Ysabelle Abraham**, who will assist with GIS data compilation for the central and south Atlantic areas.

CBTH PHASE IV

Caribbean Basins, Tectonics, & Hydrocarbons

NEWSLETTER • MAY 2015 • VOL.10 NO.2

Awards

- 2015 - Joan Blanco, PhD candidate, BP Scholar for Outstanding Graduate Work in Geosciences
- 2015 - David Lankford-Bravo, undergraduate, UH Geology Field Camp Scholarship
- 2015 - Sarah Daily, undergraduate, UH Geology Field Camp Scholarship
- 2015 - Derek Scott, undergraduate, UH Geology Field Camp Scholarship
- 2015 - Sabrina Martinez, undergraduate, UH Academic Excellence Scholarship in Geoscience
- 2015 - Derek Scott, undergraduate, First place, UH Research Day, Undergraduate Student Poster Presentation
- 2015 - Sarah Dailey, undergraduate, Second place, UH Research Day, Undergraduate Student Poster Presentation
- 2015 - David Lankford-Bravo, undergraduate, Honorable mention, UH Research Day, Undergraduate Student Poster Presentation
- 2015 - Lucia Torrado, MSc graduate, Honorable mention (tie), UH Research Day, Beginning Graduate Student Poster Presentation
- 2015 - Patrick Loureiro, PhD candidate, Honorable mention (tie), UH Research Day, Beginning Graduate Student Poster Presentation
- 2015 - Sabrina Martinez, undergraduate, Provost's Undergraduate Research Scholarship (PURS), fall semester, 2015

Posters are available to our project sponsors through the CBTH website. For a complete list of project awards, [click here](#).

Upcoming Meetings

Gulf Coast Association of Geoscientists (GCAGS) Annual Meeting

The Gulf Coast Association of Geoscientists (GCAGS) is hosting its annual meeting on September 20-22, 2015. CBTH presenters in the student poster session will include Lourdes Rodriguez, Alex Cheney, Bryan Ott, Patrick Loureiro, Naila Dowla, David Lankford-Bravo, and Derek Scott. For more information, [click here](#).



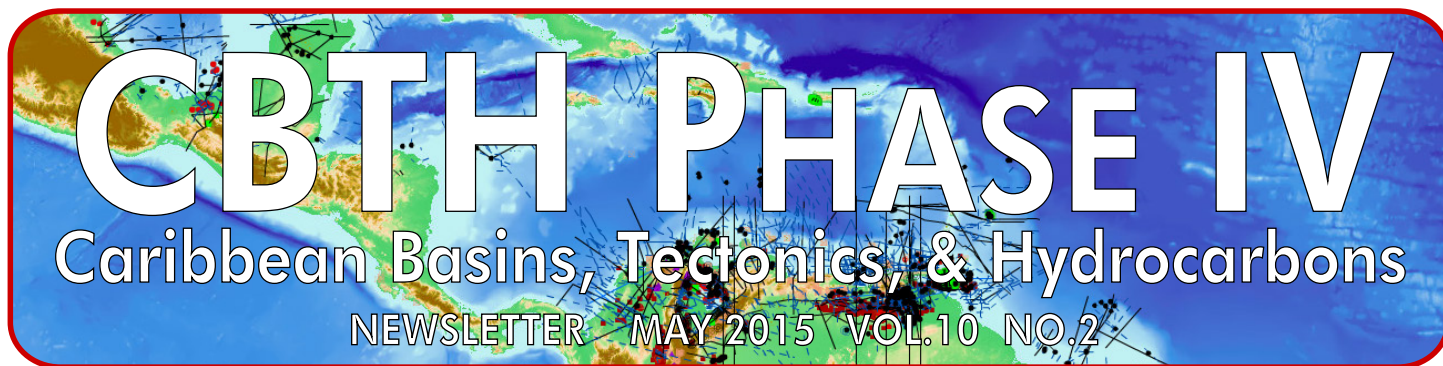
SEG
INTERNATIONAL EXPOSITION AND 85TH
ANNUAL MEETING
NEW ORLEANS

SEG International Exhibition and 85th Annual Meeting

The Society of Exploration Geophysicists (SEG) International Exhibition and 85th Annual Meeting will be held on October 18-23, 2015 in New Orleans, Louisiana. For more information, [click here](#).

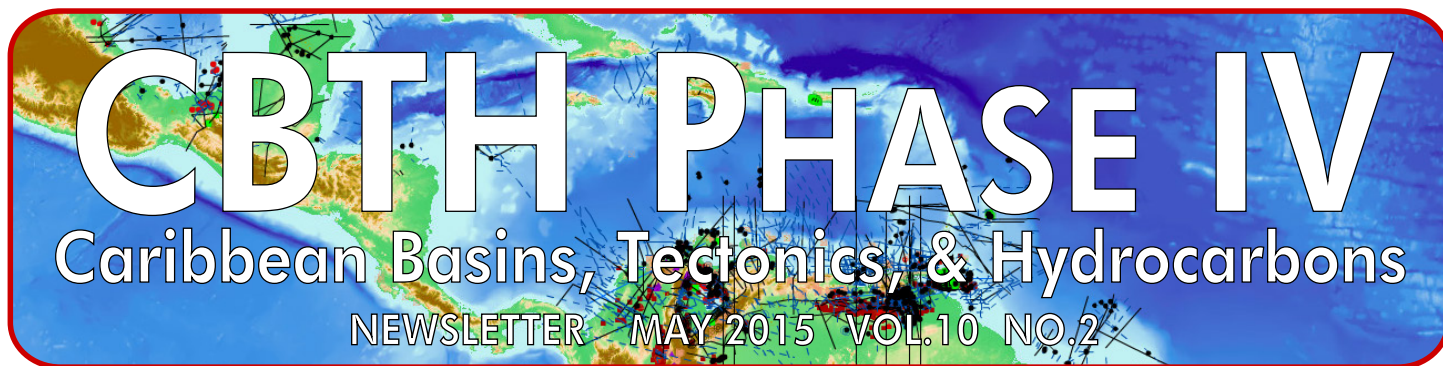
34th Annual GCSSEPM Foundation Bob F. Perkins Research Conference

Several CBTH researchers will be presenting at the 34th Annual GCSSEPM Foundation Bob F. Perkins Research Conference on December 6-9, 2015. For more information, [click here](#).



Recent Publications

- Bartok, P., Mejía-Hernández, M. C., Hasan, M., 2015, Paleogeographic constraints on Middle to Late Jurassic tectonic reconstruction of the Maya block of southern Mexico and equivalent strata of northwestern South America, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Bernal-Olaya, R., Mann, P., and Escalona, A., 2015, Tectonostratigraphic evolution of the Lower Magdalena Basin, Colombia: An example of an underfilled to overfilled, forearc basin, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Bernal-Olaya, R., Mann, P., and Vargas, C. A., 2015, Earthquake tomography, seismic reflection, and gravity evidence for a shallowly-dipping subduction zone beneath the Caribbean margin of Colombia, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Bernal-Olaya, R., Sanchez, J., Mann, P., and Murphy, M., 2015, Along-strike crustal thickness variations of the subducting Caribbean plate produces two distinctive styles of thrusting in the offshore South Caribbean deformed belt, Colombia, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Blanco, J. M., Mann, P., and Nguyen, L., 2015, Location of the suture zone separating the Great Arc of the Caribbean from continental crust of northwestern South America inferred from regional gravity and magnetic data, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Campos, H. and Mann, P., 2015, Tectonostratigraphic evolution of the northern Llanos foreland basin of Colombia and implications for its hydrocarbon potential, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Carvajal-Arenas, L. C., Torrado, L., and Mann, P., 2015, Early and Late Eocene/Oligo-Miocene(!) petroleum system in the Nicaraguan Rise: Insight from basin and 3D petroleum system modeling, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.



Recent Publications

- Carvajal-Arenas, L. C., Torrado, L., and Mann, P., 2015, Early and Late Eocene/Oligo-Miocene(!) petroleum system in the Nicaraguan Rise: Insight from basin and 3D petroleum system modeling, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Kocel, E., Stewart, R., Mann, P., and Chang, L., 2015, Near-surface geophysical investigation of coseismic folding and uplift of the Leogane fan-delta during the 2010 M7 Haiti earthquake, *Interpretation*, in press.
- Maria Catalina Moreno-López, Alejandro Escalona: Precambrian-Pleistocene tectonostratigraphic evolution of the southern Llanos Basin, Colombia, (in press; preliminary version published online Ahead of Print 10 December 2014): *AAPG Bulletin*, doi:10.1306/11111413138
- Ott, B., and Mann, P., 2015, Late Miocene to recent rotation of the Woodlark microplate as the driver of transpressional deformation and foreland basin along the Aure fold-thrust belt, Papua New Guinea, accepted with revisions, *Geochemistry, Geophysics, and Geosystems*.
- Sanchez, J. and Mann, P., 2015, Structure and basin analysis of the Cesar-Rancheria basin, northwestern South America: Implications for tectonic events and petroleum systems, in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.
- Sanchez, J., and Mann, P., 2015, Late Cretaceous-Cenozoic tectonic transition from collision to transtension Honduran Borderlands and Nicaraguan Rise, northwestern Caribbean plate boundary, Sheared margins, editor M. Nemcok, *Geological Society of London*, in press.
- Zuluaga, C., Pinilla, A. and Mann, P., 2015, Jurassic silicic volcanism and associated continental-arc basin in northwestern Colombia (southern boundary of the Caribbean plate), in eds. C. Bartolini and P. Mann, *Petroleum Geology and Potential of the Colombian Caribbean Margin*, AAPG Memoir 108, in press.

A full list of CBTH contributions is available on our website by clicking [here](#).

CBTH PHASE IV

Caribbean Basins, Tectonics, & Hydrocarbons

NEWSLETTER MAY 2015 VOL.10 NO.2

Thanks to our sponsors!

As we continue into Phase IV of the CBTH project, we would like to thank our active and inactive company sponsors for their support in providing data, software, funding, and knowledge to further student research in Caribbean geology. Your support has provided many opportunities for CBTH students to pursue research projects in the region and your efforts are truly appreciated.

Active Sponsors



Inactive Sponsors

