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We are very pleased to have your interest and continued support in the CBTH consortium. This edition of our newsletter will chronicle the past few months of the first year of Phase II. We hope the information provided is useful to you and, please, do not hesitate to contact us with any questions.

If you are not a sponsor and are interested in participating in the CBTH consortium, we encourage you to take a minute to review our website ([www.ig.utexas.edu/research/projects/cbth](http://www.ig.utexas.edu/research/projects/cbth)) where you can also download our project proposal, demos, and previous newsletters. Please feel free to contact us at [cbth@ig.utexas.edu](mailto:cbth@ig.utexas.edu)

## Additions to the CBTH Research Team

The beginning of this year has brought many new additions to our CBTH team.

Three additional graduate students have been added to our team: Anthony Rodriguez, Henry Campos, and Rocio Bernal Olaya. They will all be working on their Master of Science degrees at The University of Texas at Austin. We have also added a new research associate, Ruth Costley, and a post-doctoral researcher, Dr. Carlos Vargas.

Anthony Rodriguez received his Bachelor of Science degree in Geology from Grand Valley State University in 2009. At CBTH, he will be studying the Mexican sector of the Gulf of Mexico where his work will focus on the subsurface mapping and hydrocarbon potential of Late Cretaceous and early Tertiary sequence. His data includes older segy data from UT

along with scanned data converted to segy using the Chesapeake software.

Henry Campos joins our group from Venezuela. In 2002, he received his Bachelor of Science degree in Geophysical Engineering from Simon Bolivar University. His project will focus on the tectonics and petroleum potential of the Llanos foreland basin in Colombia.

Rocio Bernal Olaya joins us from Colombia. She has her Bachelor of Science degree in geology from the Universidad de Colombia. She will also be adding to our Colombian data by working on the tectonics, stratigraphy, and geomodeling of the Lower Magdalena basin.

Ruth Costley received a Master of Science in GIS technologies from the University of California in Redlands in 2007. Ruth is working on converting the existing HTML-based CBTH database into an ArcGIS server based system. This project will make use of state of the art GIS technologies and will simplify the use of the database by our sponsors.

Dr. Carlos Vargas joined the CBTH group in August 2009, as a UTIG post-doctoral researcher with cost sharing by the Jackson School of Geosciences. Carlos was previously working with ANH (national oil data service) in Colombia and as a professor at the Universidad Nacional de Colombia in Bogota. His project involves improved mapping of the subducted slabs beneath Colombia using tomographic methods and evaluating the deformational effects of this shallow slab subduction on the overlying basins of Colombia. He is also reprocessing and reinterpreting the Transandean seismic line across Colombia collected by ANH for the government of Colombia in 2008.

We are excited about the new additions to our research team. To learn more about any of our research team, visit: [http://www.ig.utexas.edu/research/projects/cbth/proj\\_res.htm](http://www.ig.utexas.edu/research/projects/cbth/proj_res.htm)

## Company Contacts

The following people have volunteered to serve as our main contacts for CBTH. All data generated by CBTH is provided to the sponsoring companies through these individuals. Please

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let us know if your company representative changes during this study. We greatly appreciate all the extra efforts by the contacts for the CBTH project!

## BHP Billiton Petroleum, Inc.

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## British Gas T&T Limited

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## ExxonMobil Exploration Company

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## Shell

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## StatoilHydro

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Oslo, Norway



## Total

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## CBTH software support

Bill Agee  
Landmark Graphics  
bagee@lgc.com



Landmark Graphics is kindly providing our interpretative software.

## IVS3D

Bill McKernan  
bmkernan@ivs3d.com



We are also using an exciting visualization package called Fledermaus from IVS3D.



## Zetaware Genesis

Zhiyong He  
zhe@zetaware.com

Zetaware has generously provided CBTH with two copies of Genesis which is their basin modeling package.

## PaleoGIS

Arwen Vaughan  
paleogis@rothwellgroup.com



CBTH and the UTIG PLATES project have acquired a license for the ESRI ArcGIS extension, "PaleoGIS," a plate reconstruction program combining the advantages of quantitative plate reconstruction with incorporation of GIS based data. Using this software, CBTH works with Dr. Ian Norton to improve our plate reconstructions of the Caribbean.

## Chesapeake Technology

For a list of distributors, visit:

<http://www.chesapeaketech.com/distributor.html>



CBTH has purchased the ImageToSEGY software which allows conversion of analog paper seismic records to segy format. This will allow us to convert paper data in our possession to segy and to thereby increase its value in our regional studies. All converted data will be provided to sponsors.

## Data Distribution

### Theses, Dissertations, and Other Documents

[http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/theses\\_diss.htm](http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/theses_diss.htm)

- Autret, E. (2009). Regional geological interpretation of offshore Guyana region based on subsurface data, MS Thesis, 57 pp., University of Stavanger.
- Taboada, G. (2009). Tectonostratigraphic evolution of the northeastern Maturin foreland basin, Venezuela, MS Thesis, 97 pp., University of Texas at Austin
- Christeson et al. (2008), Crustal structure of the Caribbean-northeastern South America arc-continent collision zone, *J. Geophys. Res.*, 113.
- Navigation for SEGY of Honduras release for Sept 2011
- PDF of 2009 atlas
- 2009 meeting presentations
- CBTH Atlas 2009 Surfaces in Fledermaus format

### Movies

<http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/movies.htm>

### Venmar

<http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/VenmarHtml/GIS/2009/>

2009 GIS database and website update to include Colombia, central Venezuela, Suriname and Guyana, and the Gulf of Mexico

GIS for 2009 atlas

## Past Meetings and Events

Gustavo Taboado completed his UT MS thesis in August, 2009. This thesis is available for downloading through the CBTH website. The title of the thesis is "Tectonostratigraphic evolution of the northeastern Maturin foreland basin, Venezuela."

Dr. Pete Emmet is been working with CBTH and PGS on converting paper seismic records collected on the Nicaraguan Rise in the 1970's and 1980's into segy data that can be interpreted on Landmark. All offshore well data has been recovered and integrated with the seismic results. These vintage data sets are assisting in the effort by PGS to interpret their data set collected on the Nicaraguan Rise in 2009. We are grateful to PGS for their financial assistance in converting these data to segy format.

Dr. Carlos Vargas will attend the Petroleum Show in Bogota, Colombia, on December 1-5, 2009, and present a 1½-hour invited keynote talk entitled "Hydrocarbon potential in Colombia." This talk will integrate his work with CBTH results from other team members working on the ANH Colombia data set (Whitehill, Campos, Bernal).

Total joined the CBTH project in October 2009 bringing the number of CBTH Phase II company sponsors to 13.

The CBTH group submitted nine abstracts to the AAPG meeting in New Orleans (April 11-14, 2010). We will forward copies of these abstracts to sponsors once they are formally accepted. We plan to organize one luncheon for CBTH sponsors during the meeting. Please let us know if you plan to attend the meeting.

Paul Mann and Alejandro Escalona are completing work on editing a special issue of *Marine and Petroleum Geology* that summarizes previous CBTH Phase I (2005-2008) work on eastern Venezuela and Trinidad. This paper complements a previous special issue of *AAPG Bulletin* on the Maracaibo basin of western Venezuela (Volume 90, 2006). Several papers for this new volume are now available online as in press papers through the website of the journal *Marine and Petroleum Geology*.

### CBTH Year-end Meeting

Nine sponsor representatives attended the year-end meeting in Austin, Texas. At this meeting, we presented both a summary of the past year of research and new research endeavors.

## Meeting Presentations

### AAPG Annual Meeting

available at:

<http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/POSTERS/AAPG/aapg.htm>

- |                 |   |
|-----------------|---|
| Alvarez et al.  | Three-dimensional relationships between synchronous normal faulting, folding, and sedimentation in the Columbus Channel, offshore southern Trinidad.              |
| Bingham et al.  | GIS-Based Hydrocarbon Resource Map of the Mexican Sector of the Gulf of Mexico.   |
| Emmet and Mann  | Hydrocarbon Potential of the Nicaraguan Rise Based on Reevaluation of Vintage Seismic and Well Data from the 1970s and 1980s.                                     |
| Jiang et al.    | Tectonostratigraphic and Hydrocarbon Framework of the Colombian Offshore Margin from the Magdalena Delta to Panama.   |
| Norton et al.   | Mesozoic Caribbean plate reconstructions based on a revised fit of Precambrian and Paleozoic terranes in northwestern South America and Central America.          |
| Punnette et al. | Tectonic and Stratigraphic Setting of Gas Fields of the North Coast Marine Area, Offshore Northern Trinidad and Tobago Basin.                                     |
| Taboada et al.  | Tectonic Controls for Three Main Subsidence Phases of the Eastern Venezuelan Foreland Basin in the Region of the Orinoco Delta.                                   |
| Xie et al.      | Impact of Tectonic Setting and Diagenetic History on the Reservoir Potential of Eocene to Miocene On- and Off-Shore, Deepwater Sandstones, Northern South America |

## AGU Annual Meeting

available at:

<http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/POSTERS/AGU/agu.htm>

- Mann et al. Late Quaternary Activity and Seismogenic Potential of the Gonave Microplate: Plantain Garden Strike-slip Fault Zone of Eastern Jamaica
- Xie et al. Paleogeography, Paleodrainage Systems, and Tectonic Reconstructions of Eocene Northern South America Constrained by U-Pb Detrital Zircon Geochronology

## X Simposio Bolivariano

- Mann et al. Tectonostratigraphic and structural setting of giant oil and gas clusters in the Subandean foreland basin and Pacific-Caribbean forearc region
- Taboada et al. Are widespread flexure-related normal faults in the Eastern Venezuelan foreland basin hosting undiscovered oil fields in the underexplored, far eastern part of the basin?
- Vence et al. Subsurface structure of a 400-km-long segment of the Oca-Ancon right-lateral fault zone from the offshore margin of Colombia to the Falcon basin of Venezuela.

## European Association of Geoscientists and Engineers

Escolona and Mann Hydrocarbon Exploration plays in the greater Caribbean region and neighboring provinces.

## Upcoming Meetings

Keep an eye on our website for updates and more information for these upcoming events.

[www.ig.utexas.edu/research/projects/cbth/links.htm](http://www.ig.utexas.edu/research/projects/cbth/links.htm)

### Colombian Petroleum Show

When: Dec 1-5

Where: Bogota, Colombia.

Vargas Hydrocarbon Potential in Colombia

## Contact Information

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