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## Greetings

The first month of 2011 has been an extremely productive time for the CBTH groups in Austin, Texas, and Stavanger, Norway. In the month of January, 2011, the combined CBTH group gave a total of 12 oral and poster presentations of their work. CBTH also published a special issue of the journal *Marine and Petroleum Geology* (January, 2011, volume 28) that summarizes the results of four University of Texas master's theses supported by CBTH along with four papers by Alejandro Escalona, Paul Mann, and others for a total of nine, CBTH-supported publications. We have also had a record, eight oral and poster presentations accepted at the 2011 AAPG annual meeting in Houston, Texas. At this meeting, we welcome sponsors and other interested parties to our presentations along with a special sponsor luncheon to be held on April 12, 2011 at 12 pm.

This edition of the newsletter will summarize these recent presentations along with upcoming meetings we plan to attend this spring, including the AAPG annual meeting in Houston, Texas (April 10-13, 2011).

If you are not a sponsor and are interested in participating in the CBTH consortium, we encourage you to visit our the CBTH website at: [www.ig.utexas.edu/research/projects/cbth](http://www.ig.utexas.edu/research/projects/cbth), where you can download our project proposal, demos, and previous newsletters.

We will be starting a new project in September, 2011, and we invite all interested companies to join our

effort. We are now at a record high of sponsorship with 14 companies and appreciate this endorsement and support of our study. Please feel free to contact us at [cbth@ig.utexas.edu](mailto:cbth@ig.utexas.edu) or at 512-471-0324.

## Meet our Company Contacts

The following people have volunteered to serve as our main contacts for CBTH. We provide all CBTH annual reports and atlases to these individuals. We provide these company contacts with the password information that allows access to data posted on our website. We also provide them with hard copy atlases and DVDs at the end of each year. The company contacts also represent their companies at our yearend meeting in September of each year. Company contacts; please let us know if you are no longer able to serve as our CBTH contact so we can arrange another contact person with your company. We greatly appreciate all the extra efforts by these representatives for the CBTH project!

### BHP Billiton Petroleum, Inc.

David Risch  
Houston, Texas



### British Gas T&T Limited

Stephen Babb  
Port-of-Spain, Trinidad



### Chevron

Richard Parrish  
Houston, Texas



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### Ecopetrol

Roberto Hernandez

Bogota, Colombia



### ExxonMobil Exploration Company

Pete Rumelhart

Houston, Texas



### Government of Curacao

Clark Gomes

Curacao

### Hess

Peter Mullin

Houston, Texas



### Newfield Exploration

Bruno Maldonado

Houston, Texas



### Noble Energy, Inc.

Robb Bunge

Houston, Texas



### Petrobrás

Alice Aragão

Rio de Janeiro, Brazil



### PDVSA

Alberto Ramos

Puerto la Cruz, Venezuela



### Repsol

Dewi Jones

The Woodlands, Texas



### Shell

Fernando Sanchez-Ferrer

Houston, Texas



### Statoil

David Hunt

Oslo, Norway



### Total

Patrick Salmon

Paris, France



## CBTH Software Support

CBTH attempts to use those software programs that are most used by our sponsors. Most of our main software programs are provided at no cost to CBTH because we are an educational institution. Some software programs require us to pay an annual fee.

### Landmark

Bill Agee

Landmark Graphics



Landmark Graphics is our main seismic and well interpretative software which is provided at an educational rate.

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## IVS3D

Bill McKernan



We routinely use a visualization package called Fledermaus that is available through Bill McKernan at IVS3D.

## Zetaware Genesis

Zhiyong He



Zetaware has generously provided CBTH with two copies of Genesis which is their basin modeling package. We use this software for backstripping and subsidence plots as shown in recent publications including Escalona and Mann (2011, *Marine and Petroleum Geology*).

## PaleoGIS

Arwen Vaughan



Dr. Ian Norton is working with Alejandro Escalona on an improved Caribbean plate model using the PaleoGIS software that allows integration of our other GIS-based data into plate reconstructions of the Caribbean area. For sponsors interested in obtaining the PaleoGIS extension, please contact Arwen Vaughan at the Rothwell Group for purchase options

## Chesapeake Technology

For a list of distributors, visit:



<http://www.chesapeaketech.com/distr-list.html>

ImageToSEG Y software from Chesapeake technology allows conversion of analog paper seismic records to SEG Y format. Several projects have successfully used Chesapeake to convert paper data to digital data and thereby expand our database in frontier areas including Guyana Suriname (cf. Yang and Escalona, 2011 - AAPG Bulletin, in press), the Nicaraguan Rise (cf. Emmet and Mann, 2010), and the Mexican part of the Gulf of

Mexico (Rodriguez, MS in preparation). All these converted data are made available to CBTH sponsors in Landmark format.

## Midland Valley

Sarah Davenport



Midland Valley is the producer of 2DMove, 3DMove, and 4DMove software. Midland Valley has provided the Jackson School of the University of Texas 10 licenses to assist CBTH and other projects at UT with structural restorations. CBTH projects are incorporating this software into their workflow. Paul Mann and Alejandro Escalona were coauthors on one student project with restorations in the Puerto Rico area using 3D Move that was published in 2010: Mondziel et al, 2010, *Tectonics*, v. 29.

## Schlumberger



For more information visit:

<http://www.slb.com/services/software/geo/petrel.aspx>

Schlumberger has kindly provided us with Petrel seismic simulation software.

**Petrel** is a Schlumberger owned Windows PC software application intended to aggregate oil reservoir data from multiple sources. It allows the user to interpret seismic data, perform well correlation, build reservoir models suitable for simulation, submit and visualize simulation results, calculate volumes, produce maps and design development strategies to maximize reservoir exploitation. It addresses the need for a single application able to support the "seismic-to-simulation" workflow, reducing the need for a multitude of highly specialized tools. By bringing the whole workflow into a single application risk and uncertainty can be assessed throughout the life of the reservoir.

## Data Distribution

Our CBTH release data and products sent to the sponsors each September are also available online. Please contact your sponsor representative for release DVDs and website login information.

## Theses, Dissertations, Publications and Other documents

Available at:

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

## GIS Compilation Database

Available at:

<http://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/VenmarHtml/GIS/2010/>

## Past Meetings and Events

### GSA Tectonic Crossroads Meeting: Evolving Orogens of Eurasia-Africa-Arabia, October, get dates, 2010

Paul Mann co-convended the session: "Strike-slip and transform fault tectonics." and presented two talks at this meeting.

Mann The Caribbean Plate: A natural laboratory for the study of the structure and seismic potential of active strike-slip faults

Mann et al Tectonic block rotation, arc curvature, and back -arc rifting: comparison between Mediterranean and western Pacific examples

Presentations available at:

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

### AGU Fall Meeting, San Francisco, California (December 13-17, 2010)

Tricia Alvarez and Paul Mann presented at this year's annual American Geophysical Union Fall meeting.

Alvarez et al. Subduction-to-strike-slip-transition in the southeastern Caribbean imaged using deeply penetrating seismic reflection lines and tomography.

Mann and Bachhuber Width of late Quaternary deformation of the Enriquillo-Plantain Garden strike-slip fault zone in Haiti and the Jamaica Passage and implications for accumulated stress

Presentations available at:

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

### Norwegian Winter Conference, Stavanger, January, 2011

The Norwegian Winter Conference is an annual meeting of geoscience departments in Norway and showcases work by both faculty and grad students. The CBTH group gave six presentations at the Winter Conference of the Geological Society of Norway in Stavanger, Norway.

Bingham and Escalona Using regional GIS-based suitability maps in petroleum exploration: case study of northern South America

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- Chursina and Escalona Consideration of accretionary prisms for petroleum exploration
- Escalona and Bingham Peak oil: an elusive target. The impact of technology and frontier exploration
- Figueira et al. Fractures at Galera Point, northeast Trinidad: Origins, significance and impact on reservoir potential
- Moreno and Escalona Main structural features of the southern Llanos basin, Colombia, and their implications for hydrocarbon exploration
- Yang and Escalona Exploration plays in Guyana basin, northeastern South America

Presentations available at:  
<https://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/POSTERS/Other/other.htm>

### GSA Penrose Conference in Colombia, January, 2011

Paul Mann co-convoked a GSA Penrose meeting in Manizales, Colombia, from January 17 to 21, 2011, entitled "Neotectonics of arc-continent collision". GSA Penrose meetings are meetings involving smaller groups of geoscientists focused on a particular theme. This meeting has 65 participants from eight countries. The format of the meeting was three days of talks and discussion and two days of field trips. The meeting program, field guide, abstract volume, and photos are available at the following website:

<http://www.ig.utexas.edu/research/projects/caribbean/colombiaPenrose/>. A report on the meeting will appear later this year in *GSA Today*. We greatly appreciate the financial support of one of our CBTH sponsors, Ecopetrol-ICP, that was instrumental in the

success of this meeting. During this meeting, the CBTH group presented six oral and poster presentations that included four talks by CBTH-supported graduate students.

- Alvarez et al. Subduction-to-strike-slip-transition in the southeastern Caribbean imaged using deeply-penetrating seismic reflection lines and tomography
- Bernal et al. Lower Magdalena basin, Colombia: A forearc basin formed above a zone of active, shallow subduction
- Campos et al. Flexurally-driven subsidence history of the Llanos foreland basin of Colombia
- Mann and Vargas Role of Panama arc-indentor for late Cenozoic deformation in Colombia and global analogs
- Costley et al. GIS database for research on active tectonics and basinal studies in Colombia and its offshore Caribbean and Pacific margins
- Prieto et al. Crustal structure and sequence stratigraphy of the western Colombian basin adjacent to Costa Rica and Nicaragua

Presentations available at:  
<https://www.ig.utexas.edu/research/projects/cbth/SponsorsOnly/POSTERS/Other/other.htm>

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## Upcoming Meetings

### AAPG Annual Convention

When: April 10-13, 2011

Where: George R. Brown Convention Center,  
Houston, TX

Web link: <http://www.aapg.org/houston2011/>

- Alvarez et al. Subduction-to-strike-slip-transition in the southeastern Caribbean imaged using deeply-penetrating seismic reflection lines and tomography
- Bernal et al. Lower Magdalena basin, Colombia: a forearc basin formed above a zone of active, shallow subduction
- Campos et al. Flexurally-driven subsidence history of the Llanos foreland basin of Colombia: implications for hydrocarbon exploration.
- Emmet et al. Nicaraguan Rise offshore Honduras: Upper Cretaceous source rock may contribute to a proven Eocene hydrocarbon system at Main Cape-1 in Mosquitia Basin
- Mann and Vargas Role of Panama arc-indentor for late Cenozoic deformation in Colombia and implications for regional distribution of hydrocarbons
- Prieto et al. Crustal structure, sequence stratigraphy and petroleum potential of the western Colombian basin adjacent to Costa Rica and Nicaragua

Punnette And Mann Structural and stratigraphic synthesis of the gas trend on the northern shelf of Trinidad and Tobago

Rodriguez and Mann Origin of the Mexican Ridges passive margin foldbelt based on seismic and well integration from the shelf-slope-deep basin and structural restoration

## Contact Information

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Lisa Bingham: [cbth@ig.utexas.edu](mailto:cbth@ig.utexas.edu)

Ruth Costley: [cbth@ig.utexas.edu](mailto:cbth@ig.utexas.edu)