

Resume

SHAMIK BOSE

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Academics

Present	Ph.D Program, Geology	ConocoPhillips School of Geology and Geophysics, University of Oklahoma.
2006	M.S, Geology	ConocoPhillips School of Geology and Geophysics, University of Oklahoma.
2003	M.Sc, Applied Geology	Indian Institute of Technology, Kharagpur, India.
2001	B.Sc, Geology	Calcutta University, Calcutta, India.

Achievements/Awards

2006	Poster Award, Continuing Education Session of Geophysical Society of Oklahoma City.
2006-09	SEG Foundation Scholarship.
2004	IUGS Hutchison Young Scientist Award, 32 nd International Geological Congress, Florence, Italy.
2004	GeoHost Award, 32 nd International Geological Congress, Florence, Italy.
2004	University Scholarship from the Southeastern Geophysical Society, Louisiana.
2003	Junior Research Fellowship and Eligibility for Lectureship through National Eligibility Test conducted by joint Council of Science and Industrial Research and University Grants Commission, India.
2003	Proficiency Award, Master of Science Best Project Award, Department of Geology and Geophysics, Indian Institute of Technology, Kharagpur, India.
2002	GSA Penrose Conference Award; Graduate student invitee for Penrose Conference in Ascona, Switzerland.
2001	National Merit Scholarship from the Ministry of Human Resource and Development, Government of India; Ranked 2 nd in Bachelor of Science, Calcutta University, India.

Jobs and Responsibilities

2008	Summer internship in the Structural Dynamics group at ExxonMobil Upstream Research Company, Houston, Texas: Job responsibilities involved structural analysis of the St. Malo field in the deepwater Gulf of Mexico through mechanical and geometrical restoration techniques and 3D fault framework modeling.
2007	Summer Internship in the Production Geosciences Special Studies team at ExxonMobil Production Company, Houston, Texas: Job responsibility involved evaluation of the role of fractures in production of Labarge field, Wyoming. Fracture characterization was performed by identification of fractures principally from cores and some FMI, which were then compared spatially as well as stratigraphically to EUR of respective zones.
2006	Summer Internship at Marathon Oil Company, Houston, Texas: Job responsibility involved evaluation of Cotton Valley Lime as a potential reservoir in a field in East Texas. The work involved preparation of structure maps after correlation of well logs, production analysis and maps for EUR, cumulative production, reserves and IP (using Landmark Geographix®).

Petrographic studies involving facies analysis was performed from analysis of cores, cuttings and thin sections in order to determine the quality of the reservoir.

- 2005 Summer Internship at Vintage Petroleum, Tulsa, Oklahoma: Job responsibilities involved shallow horizon mapping and production analysis of fields in the Corpus Christi Bay area. Steps involved identification of major sand bodies by correlation of well logs (using PETRA®) and integrating those with seismic data (by importing all tops to SMT Kingdom Suite®) to generate depth maps from time structure and average velocity maps. Production analysis was performed in PETRA®.
- 2004 Teaching Assistantship at the School of Geology and Geophysics, Oklahoma University.
- 2004 Summer Internship at Stone Energy Corporation, Lafayette, Louisiana: Job involved preparation of structure and net sand isochore maps for major sand bodies after correlation of well logs from the West Cameron fields and subsequent construction of net pay maps and volumetric analysis for the same.
- 2003 Teaching Assistantship at the Department of Geology, University of Louisiana at Lafayette.

Projects and Field Experience

- 2007 Present research deals with understanding the causes, effects and types of deformation in extensional transfer zones and relay ramps, with particular emphasis on the role of salt substrate. Presently analogue clay modeling experiments are carried out, which will be compared to subsurface 3D seismic data and outcrop analogues.
- 2007 Development of a 3D structural model of the Nohoch Chac field and the sub-Sihil thrust zone of the entire Cantarell field, Gulf of Mexico, as part of a PEMEX project. The 3D model was built using well data, depth converted fault surfaces and horizons and a number of balanced structural cross sections.
- 2006 “Fault Patterns and Connectivity along extensional Oblique and Lateral Ramps; Insights from Clay Experiments”: M.S thesis completed at the School of Geology and Geophysics, University of Oklahoma involving analogue clay modeling experiments under the supervision of Prof. Shankar Mitra.
- 2006 ExxonMobil’s Geoscience Recruiting Wyoming Field Seminar; Field seminar involved an integrated basin analysis of the Bighorn Basin, Wyoming.
- 2004 Fabric Modification in Shear Zones affecting Pre-deformed Rocks; Project at the Department of Geology, University of Louisiana at Lafayette.
- 2003 “Structural Studies in the Kunavaram Alkaline Complex, Eastern Ghats Belt, India: The Late Tectonic History of a Pre-tectonic Intrusion”: M.Sc thesis completed at Indian Institute of Technology, Kharagpur, India, involving the temporal relationship of the Kunavaram Alkaline Complex with respect to a Proterozoic granulitic country rock.
- 2002 General overview of the Alps, Switzerland (Part of GSA Penrose Conference; Fieldwork led by John Ramsay, Stefan Schmid, Hermann Lebit and Catalina Luneburg).
- 2002 Summer training at the National Geophysical Research Institute, Hyderabad on *Precambrian geology, Heat flow and Radiometric studies*; Training included fieldwork on the deformation history of the Archaean Dharwar Craton, India.
- 2001 Structural mapping of the Angul area in the Proterozoic Eastern Ghats Mobile Belt, India.
- 2001 Evolution of the Proterozoic Vindhyan Sedimentary Basin, Maihar, India.
- 1999 Structural mapping of the Galudih area in the Precambrian Singhbhum Fold Belt, India.

Software Knowledge

Geological and Geophysical Softwares

1. **GOCAD®**: Used them in developing 3D structural models for fields in the Gulf of Mexico as part of present PhD research, university projects for PEMEX and summer internships with ExxonMobil.
2. **LithoTect®**: Used them for constructing balanced structural cross sections for internships and current PhD research.
3. **Dynel® 2D & 3D**: Used them in internship with ExxonMobil for mechanical restoration.
4. **Petrel®**: Used in interpretation of seismic volume during present research and internships.
5. **Geographix®**: Used it extensively for well log correlation, well log analysis, production analysis and mapping during summer internship with Marathon Oil Company.
6. **ArcView GIS® & ERDAS Imagine®**: Used ArcGIS and ArcView GIS for various statistical computations of graphical data in MS thesis, summer internship at ExxonMobil Prod. Company & present research and used ERDAS Imagine for class projects in remote sensing.
7. **Fracman®**: Used in fracture characterization and simulation course.
8. **PETRA®**: Used it extensively for well log correlation and production analysis for fields in Corpus Christi Bay during the summer internship at Vintage Petroleum.
9. **SMT Kingdom Suite®**: Used it extensively for generating depth maps from time structure and average velocity maps for the fields in Corpus Christi Bay during the summer internship at Vintage Petroleum.
10. **GX II®**: Used GX Technology's GX II during seismic modeling course work and for a class project that led to a poster presentation at Geophysical Society of Oklahoma City.
11. **IRIS Seismic Processing Workshop®**: Used it for complete data and signal processing in class projects for advanced seismic exploration.

Mathematical Softwares

1. **MATLAB®**: Used them primarily for various class projects including numerical modeling of deformation, mapping and 3D modeling.
2. **Abaqus®**: Used the software in courses for forward modeling of evolution of structures, especially in the extensional regime.

General Softwares

Msoffice®, Adobe Illustrator®, Adobe Photoshop®, Corel Draw® and Macromedia Dreamweaver®.

Publications

Peer-Reviewed Articles

Bose, S. and Mitra, S., 2009. Deformation along oblique and lateral ramps in listric normal faults: Insights from experimental models. *American Association of Petroleum Geologists Bulletin*, vol. 93, No. 4, pp. 1-21.

Gupta, S. and **Bose, S.**, 2004. Deformation history of the Kunavaram complex, Eastern Ghats Belt, India: Implications for alkaline magmatism along the Indo-Antarctic suture. *Gondwana Research*, vol. 7, No. 4, pp. 1235-1241.

Conference Abstracts

Bose, S. and Mitra, S., 2008. Transfer Zones in Listric Normal Fault Systems: Insights from Clay Experimental Models. *EOS Transactions. AGU*, vol. 59, No. 53, Abstract T23E-01.

Bose, S. and Mitra, S., 2008. Experimental Modeling of Transfer Zones in Listric Normal Fault Systems. *Geological Society of America Abstracts with Programs*, Vol. 40, No. 6, p. 311.

Bose, S. and Mitra, S., 2007. Fault Patterns and Connectivity along Extensional Oblique and Lateral Ramps: Insights from Experimental Models. *American Association of Petroleum Geologists Bulletin Program Abstracts*, Vol. 91.

Bose, S. and Mitra, S., 2006. Fault Patterns and Connectivity along Extensional Oblique and Lateral Ramps: Insights from Clay Experiments. *Geological Society of America Abstracts with Programs*, Vol. 38, No. 7, p. 411.

Bose, S., Lebit, H., Lüneburg, C. and Hirt, A., 2004. Brittle-ductile shear zones in pre-deformed rocks, *Geological Society of America Abstracts with Programs*, Vol. 36, No. 5, p. 427.

Lüneburg, C., Lebit, H., Hirt, A., and **Bose, S.**, 2004. Magnetic fabrics in shear zones from the Southern Appalachian Mountain Belt. *EOS Transactions*, Vol. 85, No. 47, Abstract GP21A-0152.

Bose, S., Lebit, H., Lüneburg, C. and Hirt, A., 2004. Fabric Modification in Shear Zones affecting Pre-deformed Rocks. *International Geological Congress Abstracts*, Vol. 32, Part 1, p. 151-152.

Bose S. and Gupta, S., 2002. Mapping and Structural Analysis of a Polydeformed Granulite Terrain, An Example from Angul, Eastern Ghats, India. GSA Penrose Conference, Ascona, Switzerland.

Activities

Volunteer, SEG Spring Student Expo (2005 – 2009)
Student Member, Geological Society of America
Student Member, American Association of Petroleum Geologists
Student Member, Society of Exploration Geophysicists
Student Member, American Geophysical Union