

Education

2012 – 2017* **PhD in Geology - Rice University** **Current GPA: 3.89**

Acquire and utilize high resolution data-sets (multibeam bathymetry and drone imagery) to better understand qualitatively and quantitatively different carbonate settings which could be used as analogs to similar subsurface hydrocarbon systems. Three research localities -

- 1) Upper Cambrian Microbial Reefs, Mason Texas
- 2) Uppermost Pleistocene Coralgall Reefs, Gulf of Mexico
- 3) Uppermost Pleistocene/Holocene Coralgall Reefs, Maldives

2010 - 2012 **M.Sc. Geology - University of Delhi, India** **Grade A**

Characterization of shell concentration and taphonomic analysis of Oligocene succession of Kutch district, India

2007 - 2010 **B.Sc. (Honours) Geology - University of Delhi, India** **Grade A**

Employment History

05/2014 – 07/2014: **Chevron, Houston** - Professional Intern, ETC- Carbonate R&D

- Developed training images to assist in reservoir modelling for Carbonates

08/2014 – 09/2014: **Statoil, Bergen, Norway** - Summer Intern, Carbonate Producibility Group

- Static Reservoir Modeling with focus on facies modeling for Carbonates

06/2013 - 08/2013: **TGS, Houston** – Summer Internship as a Seismic Interpretation Intern

- 2D and 3D Seismic Interpretation, worked on Gulf of Mexico and Angola seismic dataset

06/2016 – 08/2016: **Sneider Exploration, Houston** - Intern,

- Developing online modules for clastics and carbonates training courses

02/2013 - 06/2015: **GIS/Data Centre** Student Assistant, Rice University (part time)

- Researching, creating, updating, and processing datasets and their associated metadata

06/2011 – 07/2011: **I.I.S.E.R Kolkata** - Summer Intern

- Data processing of whole rock, EPM analyses of Metamorphic Rocks

06/2009 - 07/2009: **Wadia Institute of Himalayan Geology**- Summer Intern,

- Glaciological Field trip to Dokriani Glacier (16-22 June 2009), and analysis of Meteorological data from Dec 2005 to Nov 2008 of Dokriani Glacier.

06/2008 - 07/2008: **India Meteorological Department, India** - Summer Intern

- Analysis of epicentral data at India Meteorological Department, (I.M.D)

Teaching Assistantships

- 2016 - Sequence Stratigraphy (Spring semester)
2015 - Sequence Stratigraphy (Spring semester)
2014 - Seminar on Carbonates (Fall Semester)
2014 - Sequence Stratigraphy (Spring semester)
2013 - Ocean and Global Change (Fall Semester)

Achievements and Awards

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| 2016 | First Place Poster at AAPG Student Expo, Houston | 2014 | Second Place Poster at IRESS symposium 1, Rice University. |
| 2016 | First Place Poster at IRESS symposium 3, Rice University | 2013 | BP Rice Fellowship |
| 2016 | Department Service Award – Earth Science, Rice University | 2012 | First Place at Conglomerate, Department of Geology, University of Delhi. |
| 2015 | Second Place at SEPM Photo Contest, Carbonate meeting, ACE-Denver | 2011 | Summer Research Fellowship, Indian Academy of Sciences |

Leadership Activities

- **President, AAPG Rice Chapter**, Rice University – 2016-17
- **President** of ISAR (Indian students at Rice - club) – 2013-14
- **Vice President, AAPG Rice Chapter**, Rice University – 2015-16
- **Vice President** of Rice Cricket Club – 2013-14
- **Member** of **SEPM Headquarters** Committee 2016-17
- **Member** of **AAPG/SEG Student Expo Committee, Houston** 2015, 2016
- **Secretary, AAPG Rice Chapter**, Rice University - 2014
- **Liaison** for Schlumberger Technology Day, **AAPG-SEG Student Expo**, Houston, 2013
- **Volunteer** at **Commonwealth Games**, Delhi, India, 2010

References

Jeroen Kenter	Carbonate Specialist - Total	kenter.jeroen@gmail.com
Vitor Abreu	Consultant (Past – ExxonMobil)	Vitor_Abreu@yahoo.com
Steve Bachtel	Team Leader, ETC, Carbonate R&D, Chevron	Steve.Bachtel@Chevron.com
Purnima Bhowmik	Sr Geophysicist – TGS – Nopec	purnima.bhowmik@tgs.com
Andre W. Droxler	Professor – Rice University	andre@rice.edu
Paul M. Harris	Adjunct Prof. Rice University (Past – Chevron)	pmitchharris@gmail.com

Publications

- Rovere, A., **Khanna, P.**, Bianchi, C. N., Droxler, A. W., Morri, C., Naar, D.F., 2016. Submerged reef terraces in the Maldivian Archipelago (Indian Ocean): heritage of a punctuated postglacial sea level rise? (In review – Sci. Reports)
- **Khanna, P.** 2012. Characterization of shell concentrations from Oligocene succession of Kutch and their distribution in system tracts. M.Sc thesis- University of Delhi.
- **Khanna, P.**, Droxler, A.W., Harris, P.M., Nittrouer, J. High resolution deglacial sea level record for last deglaciation. (Manuscript ready for submission)
- **Khanna, P.**, Droxler, A.W., Harris, P.M., Lehrmann, D. Three phase evolution of Upper Cambrian Microbial Reefs, Mason Texas (work in progress)

Invited Talks

- **Khanna, P.**, Droxler, A.W., Harris, P.M., Lehrmann, D., 2015. Upper Cambrian Microbialites, Mason, Texas: The making of virtual outcrops using photogrammetry. IRESS, Rice University, 2015

Presentations and Abstracts

- **Khanna, P.**, Droxler, A.W., Hopson, Heath, Harris, Paul (M), Lehrmann, D., 2016. Investigating Upper Cambrian Microbial Reefs (Mason, Texas) – Unconventional Approach in Mapping and Quantifying their different scales. Session – Unconventional Carbonate Reservoirs II, AAPG ACE – Calgary, Canada (Oral Presentation)
- **Khanna, P.**, Droxler, A.W., Lehrmann, D., Nittrouer, J., Harris, Paul (M), 2016. Uppermost Pleistocene Coralgall Reefs and Upper Cambrian Microbial Reefs: Morphologies and Sea Level-Induced Evolution (?). AAPG ACE – Calgary, Canada (Poster Presentation)
- Hopson, Heath H., **Khanna, Pankaj**, Fessahaie, Meron, Droxler, André W., Harris, Paul (Mitch), Lehrmann, Daniel J. 2016. Distinct Growth Phases of an Upper Cambrian Microbial Reef Complex; Depositional Environment Indicators (James River, Mason County, Texas). AAPG ACE – Calgary, Canada (Poster Presentation)
- Droxler, André W., Hopson, Heath, H., **Khanna, Pankaj**, Proctor, Jacob, M., Lehrmann, Daniel, J., Harris, Paul (Mitch), 2016. Session – Geobiology of Carbonate Systems AAPG – ACE meeting, Calgary, Canada
- Khanna, P., Droxler, A.W., Harris, P.M., Pyrcz, M., Miller, C.,M., Lehrmann, D, Kroeger, G., 2015. Modeling Upper Cambrian Microbial Reefs: Bridging the gap from outcrops to reservoir-scale, AAPG National meeting, Denver, 2015. (Poster Presentation)
- Hopson, H., Fessahaie, M., **Khanna, P.**, Droxler, A.W., Harris, P.M., Lehrmann, D., 2015. Detailed Core Facies Description of an Upper Cambrian Microbial Reef Complex (James River, Mason County, Texas), AAPG National meeting, Denver, 2015. (Poster Presentation)

- **Khanna, P.**, Droxler, A.W., Harris, P.M., Naar, D., F., Donahue, B., T., Flury, F., Zuhair, M., 2015. Well-developed terrace morphology in the deep surroundings of Male Island (North Male Atoll, Republic of Maldives): Record of episodic sea-level rise during last deglaciation. IRESS, Rice University, 2015. (Poster Presentation)
- Hopson, H., **Khanna, P.**, Fessahaie, M., Droxler, A.W., Harris, P.M., Lehrmann, D., 2015. Vertical and Lateral characterization of an Upper Cambrian Microbial Reef Complex (James River, Mason County, Texas), IRESS, Rice University, 2015. (Poster Presentation)
- Fessahaie, M., Hopson, H., **Khanna, P.**, Droxler, A.W., Lehrmann, D., Harris, P.M., 2015. Inter- bioherm grainstone flow and accumulation in an Upper Cambrian Microbial Reef Complex of the Wilbern's Formation (James River, Mason County, Texas), IRESS, Rice University, 2015. (Poster Presentation)
- **Khanna, P.**, Droxler, A.W., Harris, P.M., Lehrmann, D., 2015. Upper Cambrian Microbial Reefs, Mason, Texas: The making of virtual outcrops using Photogrammetry. HPC Workshop, Rice University. (Poster Presentation)
- **Khanna, P.**, Droxler, A.W., Nittrouer, J., 2014, Uppermost Pleistocene Banks Along the South Texas Shelf Edge: A Clear Case of Drowning Based Upon Their Morphologies Session Title: Theme 5: Seismic Stratigraphy, Geomorphology and Heterogeneity of Carbonates. AAPG National meeting, Houston Tx, 2014. (Oral Presentation)
- Droxler, A., **Khanna, P.**, and Lehrmann, D., 2014, Growth Phases in the Upper Cambrian Wilberns Microbial Reef Evolution (Mason County, Texas): AAPG National meeting, Houston Tx, 2014. (Poster Presentation)
- Mercado, L., Lehrmann, D., **Khanna, P.**, Droxler, A., 2014, Constraints on the depositional environments of cyclic, microbialite bearing carbonate- siliciclastic strata; Cambrian, Wilberns Formation, Mason County, TX: AAPG National meeting, Houston Tx, 2014. (Poster Presentation)
- Droxler, D., Lehrmann, D., **Khanna, P.**, Droxler, A.W., 2014, Comparative Analysis of Microbial Carbonate Fabrics at Various Scales within the Architecture of a Large Microbial Reef Mound; Cambrian, Wilberns Formation, Mason County, TX: AAPG National meeting, Houston Tx, 2014. (Poster Presentation)
- Mercado, L., **Khanna, P.**, Lehrmann, D., Droxler, A.W., 2014, Constraints on the depositional environments of cyclic, microbialite bearing carbonate- siliciclastic strata; Cambrian, Wilberns Formation, Mason County, TX: Geological Society of America Abstracts with Programs. Vol. 46, No. 1, p.0. (Poster Presentation)
- **Khanna, P.**, Droxler, A.W., Nittrouer, J., Tunnell, W., and Shirley, T, 2013, Detailed bathymetry of Uppermost Pleistocene drowned coralgall banks along the South Texas shelf edge: Record of rapid sea-level rise during last deglaciation between Meltwater Pulses 1A and 1B.', AGU-2013. (Poster Presentation)
- **Khanna, P.**, Droxler, A.W., Nittrouer, J., Tunnell, W., and Shirley, T, 2013. Detailed bathymetric survey of uppermost Pleistocene drowned banks along the South Texas Shelf Edge: A glimpse at their growth and demise during last deglaciation', GSA South Central, April 2013, University of Texas, Austin. (Oral Presentation)

- **Khanna, P.**, and Kumar, P, 2013, Characterization of Shell Concentration and Taphonomic Analysis of Maniyara Fort Formation (Oligocene) in Kutch Basin, India”, Geologic Problem Solving with Microfossils III Conference, March 2013, University of Houston, Texas USA. (Oral Presentation)
- **Khanna, P.**, and Kumar, P, 2012. ‘Characterization of Shell Concentrations of Oligocene of Kutch’, at the, ‘National level field workshop and Brainstorming session on Geology of Kachchh Basin, Western India: Present Status and Future Perspectives, at Kutch University Gujarat 26-29 January 2012. (Oral Presentation)

Professional Qualifications

Computer Skills

- RMS
- Arc G.I.S. 10.1 – advanced level,
- Agisoft 1.0 (**Photogrammetry Software**),
- Caris Hips and Sips 7.1 (**Multibeam Data Processing Software**),
- Prima (TGS Interpretation and Processing software),
- Coral Draw Suit-12, Auto Cad-2009, Erdas 8.5,9.1, Systat 13, Grapher 10, Microsoft Office,
- Basic functioning of SEISAN software, C programming