

# Sudeep Kanungo, PhD, MBA

Salt Lake City, UT \* skanungo@egi.utah.edu

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## Research Assistant Professor - Geoscientist - Principal Investigator

**Technical Expertise:** Calcareous nannofossil bio-chronostratigraphy, graphic correlation and composite standard database application, integrated inter-disciplinary geoscience exploration research.

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## EDUCATION

**Executive MBA, University of Utah, David Eccles School of Business, Salt Lake City, 2014**  
#21 US ranking. **GPA:** 3.7/4.0. International Study Trips: Canada, China, Japan. Focus in Human Resources.

**Ph.D. Geology, University College London (UCL), University of London, U.K., 2005**

**Dissertation Title:** *Biostratigraphy and paleoceanography of mid-Cretaceous calcareous nannofossils: studies from the Cauvery Basin, SE India; the Gault Clay Formation, SE England; ODP Leg 171B, western North Atlantic and ODP Leg 198, northwest Pacific Ocean.* University College London, UK, 260 pages.

**M.Sc., Micropalaeontology (Geology), UCL, U.K., 2000**

Recipient, **Shell Centenary Scholarship** from Shell Global; full tuition and living costs.

**M.Phil. Geology, University of Delhi, India, 1999**

**M.Sc., Geology, University of Delhi, India, 1997**

**B.Sc. (Honours), Geology, University of Delhi, India, 1995**

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## SCIENCE AWARD

- **BEST SCIENCE POSTER (NON-STUDENT CATEGORY), 2016.** 15<sup>TH</sup> HOUSTON GEOLOGICAL SOCIETY (HGS-PESGB) AFRICA CONFERENCE, HOUSTON, TX

**POSTER TITLE:** Refinements to Chronostratigraphy of the Cretaceous Oceanic Anoxic Events in the Southern South Atlantic Ocean – Comparison of 6 DSDP Sites, **senior author** of the poster and published abstract.

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## PROFESSIONAL EXPERIENCE

**University of Utah, Energy & Geoscience Institute (EGI), College of Engineering, Salt Lake City, 2005 - present**

**Research Assistant Professor | Projects as Principal Investigator (PI)/co-PI**

**Project results** (includes technical reports, research findings, and developing predictive framework for exploration and production decision-making)

**EGI OCEANS Region 2:** Central and North Atlantic Ocean: 2016 - 2018

**Sponsors:** Anadarko | Chevron | Eni | Hess | Statoil | Suncor Energy | Total

**Grant and scope of work:** ~\$ 1.6 million. Regional synthesis integrating chronostratigraphy, geochemistry and petroleum systems of the deepwater Central and North Atlantic Ocean basins.

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Covers sedimentary basins in offshore east coast USA, Canada, Northwest Africa, Ireland & Iberia - Bay of Biscay. Synthesis of 40 DSDP-ODP-IODP sites and industry wells.

## **EGI OCEANS Region 1: South Atlantic Ocean: 2014 - 2016**

**Sponsors:** Anadarko | BG | BHP | Casa | Chevron | Cobalt | ConocoPhillips | Eni | Exxon | Hess | Maersk Oil | Murphy | Nexen | Noble Energy | Repsol | Shell | Statoil | Total | Tullow | Woodside

**Grant and scope of work:** >\$ 1 million, two phased-study. Regional synthesis of South Atlantic ocean basins integrating chronostratigraphy, geochemistry and source rock systems using public domain data (20 DSDP/ODP/IODP sites).

## **Indian Subcontinent Shale Resource Plays: 2013 - 2014**

**Sponsors:** BP | Shell

**Grant and scope of work:** \$200,000. Unconventional resource exploration (shale gas/liquids). Created an in-depth understanding of three shale units from three sedimentary basins; ArcGIS report on tectono-stratigraphy, geochemistry, burial history, petroleum systems, and shale ranking.

## **East African Margin and SW Indian Ocean Basins Project: 2011 - 2012**

**Sponsors:** Cairn India | BHP | Delonex Energy | ENEL | GDF Suez | JOGMEC | Maersk | INPEX | Lukoil | Ophir Energy | Tullow | Repsol | Santos | SK E & P

**Grant and scope of work:** ~\$800,000. This project evaluated 24 Mesozoic-Cenozoic basins of the East African Margin (onshore to offshore) from Somalia through Ethiopia, Kenya, Tanzania, Mozambique and Madagascar, in light of the deepwater gas discoveries in offshore Tanzania & Mozambique.

## **High-resolution Mesozoic Chronostratigraphy and Depositional Facies of the Offshore Ghana Margin, Gulf of Guinea, West Africa: 2011 - 2012**

**Sponsors:** Anadarko | Tullow Oil | Hess | CGX Energy | Exxon Mobil | ConocoPhillips

**Grant and scope of work:** \$300,000. Project enabled high-resolution age and paleo-environmental correlation of conventional plays around the Jubilee Field area using five industry wells.

## **Circum-India Basins Project: Phase 1 & 2, East and West India Margin, 2007 - 2010**

**Sponsors:** Anadarko | BHP Billiton | BG India | Cairn India | ConocoPhillips | Eni | Hess | Noble Energy | Petrobras | Santos

**Grant and scope of work:** >\$1 million, two phased-study, 20 onshore-offshore basins, 11 sponsors. Revised the regional tectono-stratigraphy & petroleum systems classification of the studied basins.

## **Projects as Participating Scientist (chronostratigraphy research and report writing)**

- **South America shale gas and shale oil plays**, Phase 1: regional geological characteristics and play modeling, **2014**, >25 sponsoring companies
- Chronostratigraphy and paleoenvironments of a selected well interval in the Sirt Basin, **Libya, 2009**

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- Regional chronostratigraphy and paleoenvironments of the Cretaceous to Neogene section of the Sirt Basin, **Libya**, 24 exploratory wells, **2006 – 2009**
- Chronostratigraphy and paleoenvironments of the Jurassic to Neogene section, offshore **Suriname**, 3 exploratory wells, **2006 – 2008**
- Chronostratigraphy and paleoenvironments of the Cretaceous to Neogene section, offshore **French Guiana**, 1 exploratory well, **2006**
- Regional chronostratigraphy and paleoenvironments of **Trinidad**: the Cretaceous and Paleogene, 30 exploratory and ocean drilling program (ODP) wells, **2005 – 2006**
- Chronostratigraphy and paleoenvironments of the Cretaceous to Neogene section, offshore **Guyana**, 2 exploratory wells, **2005**

## Research Assistant Professor | Student Advising, Teaching and Training

### Student Advising and Thesis Committee Member:

- **MS Geology Candidate, Kate Schewhr** (2016-2018). Thesis advisor. Thesis Title: Re-evaluation of Mesozoic Source Rock Systems of the Central Atlantic Conjugate Margins.

### Training corporate/industry professionals:

- **Duration:** Teaching advanced technical short courses to E & P company geoscientists internationally. Lecture, practical exercises and hands-on training on the graphic correlation methodology. One week to two-month long customized courses.
- **Course Title:** 1. Integrated Bio-chronostratigraphy in Hydrocarbon Exploration. 2. Fundamentals of Bio- and Chronostratigraphic Analyses in Exploration and Production
- **Beneficiaries:** Ghana National Petroleum Corporation (2012) | Sierra Leone Petroleum (2011) Corporation | Chesapeake Energy (2014) | EGI Oceans participating companies (2015-17).

### Coaching and mentoring students:

- Beneficiaries: University of Utah undergraduate geology/geography students working on my research projects as interns or paid students; since 2008.
- No. of beneficiaries: > 10 students

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## INDUSTRY EXPERIENCE

**Ellington & Associates**, Houston, TX, March 2010 - August 2010

Gulf of Mexico oil platform biostratigrapher, hands-on Paleogene and Neogene nannofossil biostratigraphy and geo-steering experience.

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## SCHOLARLY PUBLICATIONS

- **Kanungo, S.**, Bown, P. R., Young, J. R., & Gale, A. S., 2018. *A brief warming event in the late Albian: evidence from calcareous nannofossils, macrofossils, and isotope geochemistry of the Gault Clay*

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*Formation, Folkestone, southeastern England*, J. Micropalaeontology, 37, 231-247, <https://doi.org/10.5194/jm-37-231-2018>

- **Kanungo, S.**, Young, J., & Skowron, G., **2017**. *Microfossils: Calcareous Nannoplankton (Nannofossils)*, **Book chapter**, Encyclopedia of Petroleum Geoscience, Springer Nature Publishers, ISBN Living Reference Work: 978-3-319-02330-4.
- Hafeez, M., **Kanungo, S.**, Hakhoo, N., and Pathak, M., (**Editors**), **2017**. **Monograph**, International Workshop Proceedings – Indian Shale Oil and Gas Exploration, January 2016: Energy & Geoscience Institute (EGI), University of Utah, 162p.
- Hakhoo, N., Thusu, B., Mani, D., Bhat, G.M., Craig, J., Thurow, J., Hafiz, M., **Kanungo, S.**, Koul, S., and Ahmed, W., **2016**. *Hydrocarbon source potential of the Proterozoic Sirban Limestone Formation, NW Himalaya, Jammu (India)*. Journal Geological Society of India, 88, 685-692.
- **Kanungo, S.** & Platon, E., 2006. *Absolute Time Calibration of Upper Cretaceous Calcareous Nannofossils Using Graphic Correlation*. International Nannoplankton Association Conference 11, Nebraska, Conference Abstracts, p. 57.
- **Kanungo, S.**, Bown, P.R., Gale, A.S., and Young, J.R., 2004. *A significant palaeoclimatic/palaeotemperature shift around the Middle/Late Albian boundary in the Gault Clay Formation, Folkestone, SE England*. Journal of Nannoplankton Research, 26, p. 63.
- Gröcke, D.R., Kucera, M., Bown, P.R., **Kanungo, S.**, MacDonald, E., Stoll, H., Lees, J., and Schmidt, D., 2002. *Definition of the Onset of OAE1b in the Proto-Atlantic. Organic-carbon burial, climate change and ocean chemistry (Mesozoic-Paleogene)*. Geological Society London, UK, Conference Abstracts, p. 16.

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## PROFESSIONAL APPOINTMENTS & MEMBERSHIPS

Elected Member, **Executive Committee, Academic Senate, University of Utah**, 2016 - 2018

Voting Member, **Senate Personnel and Elections Committee**, University of Utah, 2016 - 2018

Appointed Member, **Senate Advisory Ad-Hoc Committee on Campus Sexual Assault**, University of Utah, 2015 - present

Member, **International Nannoplankton Association**, 2000 - present

Member, **North American Micropaleontological Society**, 2012 - present

Member, **Society for Human Resource Management (SHRM)**, 2014 - present

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## MULTI-LINGUAL PROFICIENCY

Fluency in three languages: **English** (bilingual proficiency), **Hindi** (bilingual fluency), **Oriya** (Indian language).