

The following application was submitted to the MARGINS Office:

Name:

Garry Karner

Category: Research Scientist

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Statement of interest:

I am presently the chair of the MARGINS Office and Steering Committee and have worked extremely hard in defending the huge importance of the Source-to-Sink initiative to the MARGINS program and thus insure its success. I am particularly committed to seeing this second focus site funded and underway. I bring an NSF programmatic and MARGINS Steering committee background and perspective to the proceedings that should be very useful as guide for this next phase of New Zealand-S2S proposal discussions and preparations.

Short resume:

CURRICULUM VITAE: Garry D. Karner

VITAL STATISTICS:

Place of Birth: Adelaide, South Australia.

Nationality: Australian

Present work address: Lamont-Doherty Earth Observatory,
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EDUCATION:

Flinders University, Marine Geology and Geophysics, B.Sc. (Hons) 1974.
Canberra College of Advanced Education, Statistics, Grad. Dipl. (Statistics)
1979.
Columbia University, Marine Geology and Geophysics, Ph.D., 1983.

HONORS:

1999: 2000-2001 Ocean Drilling Program Distinguished Lecturer
1997: AAPG Wallace E. Pratt Memorial Award
1993-1994: DuPont Educational Aid program - Science & Engineering award
1992-1993: DuPont Educational Aid program - Science & Engineering award
1989: Storke Research Award (Columbia University)
1984-1985: Elf-Aquitaine Fellowship in Fossil Fuel exploitation.
1980-1982: Australian Public Service Board Overseas Post-Graduate Scholarship.

EXPERIENCE:

1996-present: Lamont-Doherty Earth Observatory of Columbia University,
New York, (Senior Research Scientist)
1993-1996: Lamont-Doherty Earth Observatory of Columbia University, New
York, (Research Scientist)
1986-1993: Lamont-Doherty Geological Observatory of Columbia University,
New York, (Associate Research Scientist)
1984-1986: University of Durham, Durham, England, (Research Fellow)
1983: Bureau of Mineral Resources (Senior Research Scientist, Gravity/Marine
Group)
1979-1983: Bureau of Mineral Resources (Science 2, Gravity Group)
1975-1978: Bureau of Mineral Resources (Science 1, Marine Group), Canberra,
Australia

SELECTED PUBLICATIONS:

Karner, G.D., and N.W. Driscoll, 1999. Tectonic and stratigraphic development of
the West African and eastern Brazilian Margins: Insights from quantitative basin
modeling. In: "The Oil & Gas Habitats of the South Atlantic", Cameron N.R.,
Bate, R.H., and Clure, V.S. (eds), Spec. Publ. Geol. Soc. Lond., 153, 11-40.

Karner, G.D., and N.W. Driscoll, 1999. Style, timing, and distribution of
tectonic deformation across the Exmouth Plateau, northwest Australia, determined
from stratal architecture and quantitative basin modelling. In: "Continental
Tectonics", Mac Niocaill, C., and P.D. Ryan (eds), Spec. Publ. Geol. Soc. Lond.,
164, 271-311.

Karner, G.D., 2000. Rifts of the Campos and Santos basins, southeast Brazil:
Distribution and timing. In: "Petroleum Systems of South Atlantic Margins", M.
Mello and B. Katz (Eds.), Am. Assoc. Petrol. Geol. Mem, 73, 301-316.

Driscoll, N.W., and G.D. Karner, 1999. Three-dimensional quantitative modeling
of clinoform development. Mar. Geol., 154, 383-398.

SYNERGISTIC ACTIVITIES:

2003-2006: Member, IODP interim Internal Liaison Panel (iILP) 2000-2003: Chair,
MARGINS Steering Committee, NSF MARGINS Program

2002-2003: Federal University of Rio de Janeiro, Brazil (Visiting professor)
1999-2000: NSF/OCE/MG&G Panel member
1996-1998: Member, ODP Tectonics Panel/Dynamics of the Earth's Interior Steering and Evaluation Panel
1986-1997: Federal University of Ouro Preto, Ouro Preto, Brazil, (Visiting professor)
1988-1998: Lamont-Doherty Geol. Obs. Computer Users Committee (Chairman).

DOCTORAL STUDENTS:

Past students:

Mello, U., 1994. Ph.D. Thesis: "Thermal and mechanical history of sediments in extensional basins".

Marangoni, Y., 1994. Ph.D. Thesis: "A crustal model for Araguaia and Brasilia thrust belts as determined from gravity and topography" (CNPq/USP/ Columbia University sandwich program).

McGinnis, J., 1995. Ph.D. Thesis topic: "Stratigraphic discontinuities and their implications for continental margin evolution".

Bender, A., 1999. Ph.D. Thesis topic: "Mechanisms of intracratonic and rift basin formation: Insights from the Canning basin, northwest Australia".

Fang, J., 2000. Ph.D. Thesis topic: "Styles and distribution of continental extension derived from the rift basins of eastern Papua-New Guinea".

Cathro, D.L., 2002. Ph.D. Thesis topic: "Three-dimensional stratal development of a carbonate-siliciclastic sedimentary regime, Northern Carnarvon Basin, Northwest Australia" (UTIG student/Jamie Austin, prime supervisor).

Present students:

Tischer, M., Ph.D. Thesis topic: "The structure and development of the ocean-continent boundary of the Exmouth Plateau, northwest Australia: Implications for extensional strain partitioning"

COLLABORATORS AND CO-AUTHORS OVER THE LAST 48 MONTHS:

Flavio Anselmetti (ETH), Ricardo Bedregal (UFRJ), Robin Bell (LDEO), Nick Christie-Blick (LDEO), Craig Fulthorpe (UTIG), Andrew Goodliffe (SOEST), Paul Green (Geotrack), Kerry Hegarty (Geotrack), Nick Kusznir (Liverpool), David Reynolds (Exxon) and Brian Taylor (SOEST).

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ABSTRACT

Title:

Authors:

Abstract:

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