

JAMES G. OGG

Professor

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STATISTICS

Birthdate: 25 November 1952, Frederick, Maryland; Social Security #522-64-5047
 Married: Gabi Ogg (Micropaleontologist researcher; Timescale graphics)
 sons -- Yasha Michael & Nikolas Christopher Ogg

RESEARCH INTERESTS

Marine Stratigraphy, Paleoceanography, Paleomagnetism, Sedimentology

Main specializations:

Geological time scale calibration and Web-accessible databases
 Cycle stratigraphy
 Jurassic and Cretaceous paleoceanography and paleoclimate.
 Mesozoic magnetostratigraphy

Current research programs (Oct., 2008):

TimeScale Creator database and visualization system (joint product of NSF and International Commission on Stratigraphy)

Geological Time Scale 2010 (*coordinating editor, to be published by Cambridge University Press*).

[This follows two previous compilations (Gradstein, Ogg, Smith, *Geologic Time Scale 2004*; and Ogg, Ogg, Gradstein, *Concise Geologic Time Scale 2008*)]

Astronomical tuning of the Mesozoic Era

High-resolution correlation of Boreal and Tethyan faunal realms during Late Jurassic (Callovian through Tithonian) using integrated magnetostratigraphy, sequence stratigraphy, and cycle-stratigraphy

Super-greenhouse conditions and elevated ocean acidity resulting from the Ontong-Java Plateau "super-plume" of mid-Cretaceous

I. GENERAL INFORMATION

A. PRESENT POSITION:

Professor, Department of Earth and Atmospheric Sciences, Purdue University, West Lafayette, Indiana

B. EDUCATION

1975 B. S. California Institute Technology, in Geology

1975 M. S. California Institute Technology, in Planetary Geology

1981 Ph.D. Scripps Inst. Oceanography (Univ. Calif. at San Diego), in Oceanography

C. PREVIOUS POSITIONS

Scripps Institution of Oceanography (Geological Research Division)

1975-1981 Research Assistant and Teaching Assistant

1983-1984 Research Associate

1984-1986 Assistant Researcher II (assistant professor on research contract)

University of Wyoming (Department of Geology and Geophysics)

1981-1983 Postdoctoral Fellowship, Paleomagnetism Laboratory,

1983-1984 Postdoctoral Research Associate (jointly with Scripps Inst. Ocean.)

1984-1986 Adjunct Assistant Professor

Purdue University (Department of Earth and Atmospheric Science)

1986-1990 Assistant Professor

1990-1995 Associate Professor

1995- Professor

D. AWARDS AND HONORS

1. Professional awards

Geological Society of America:

(1) Mary B. Ansari Best Reference Work Award (Nov., 2006)

[For *The Geologic Time Scale 2004*; by Gradstein, Ogg and Smith]

\$500 from GSA's Geoscience Information Society (GSIS)

(2) Exceptional Reviewer for *Geology* (Dec, 2007)

2. Purdue University awards

(1) Undergraduate Advising (College of Science, Feb., 2008)

(2) Graduate Student Mentoring (College of Science, Feb., 2008)

3. International Recognition (*selected*)

France: External PhD Reviewer (University of Paris; Feb-March, 2008)

- Australia: Visiting Fellow, Research School of Earth Sciences, The Australian National University, Canberra (Jan-May, 2007 = research leave). Consulting geologist with Geoscience Australia (May, 2008; May, 2009).
- Germany: Visiting professor, GeoForschungsZentrum Potsdam, Potsdam, Germany (Aug-Dec, 2006 = Academic sabbatical)
- New Zealand: Visiting professor, Institute of Geological and Nuclear Sciences, Lower Hutt, New Zealand (Jan-May, 1999 = Academic sabbatical)
- England: Visiting professor, Dept. of Earth Science, Oxford University, Oxford, England (May-June, 1997; and June, 1998)
- Japan: Visiting professor, Dept. of Geology and Geophysics, Kochi University, Kochi, Japan (May-June, 1989)
- Italy: Visiting distinguished professor and invited short course (magnetic stratigraphy), Dipartimento Scienze della Terra, Università della Calabria, Cosenza, Italy (Dec., 1988)
- China: Invited researcher, Chinese Academy of Geological Sciences, People's Republic of China (Oct-Nov, 1986 and Aug, 1987)

4. Invited International Presentations (*major; others are listed at end of Professional activities*)

- Invited co-convener and keynote, 33rd International Geological Congress, Oslo (Aug, 2008)
- Invited co-convener and keynote, 32nd International Geological Congress, Florence (Aug, 2004)
- Invited co-convener and keynote, 31st International Geological Congress, Rio de Janeiro (Aug, 2000)
- Invited keynote address, European Geoscience '98, Keele, England (April, 1998).
- Invited short course on quantitative stratigraphy (cyclic sediment portion), Copenhagen, Norway (May, 1998).
- Invited short course on cyclic sediments, Oslo, Norway (May, 1996)
- Invited speaker and short-course, 29th International Geological Congress, Beijing, China (Aug, 1996).
- Invited speaker, Ocean Drilling Stratigraphic Database, Bremen, Germany (Dec., 1995)
- Invited speaker, 4th International Conference on Paleooceanography, Kiel, Germany (Sept, 1992), with 1000 DM honorarium.
- Invited speaker, 27th International Geological Congress, Moscow (July, 1984)
plus, American Geological Institute Travel Award to this 27th IGC.

E. PROFESSIONAL AND SCHOLARLY ASSOCIATIONS

1. Current Activities with INTERNATIONAL COMMISSION ON STRATIGRAPHY:

- International Commission on Stratigraphy (International Union of Geological Sciences)
Secretary General (2000-2008)
- Subcommission on Stratigraphic Information – **Chair** (2008-2012)
- Subcommission on Jurassic Stratigraphy -- **Voting member** (2000-2008); Corresponding member (1984-2000)
- Chairman/coordinator**, Working Group on Jurassic Magnetostratigraphy (1984-)
- Member, Oxfordian-Kimmeridgian Working Group (1985-)
- Member, Kimmeridgian-Tithonian Boundary Working Group (1989-)
- Working Group on the Jurassic-Cretaceous Boundary (member, 1985-)

Committee on Quantitative Stratigraphy (member, 1987-2000)

2. Other Current International Activities:

Editorial Board, *Newsletters on Stratigraphy* (2008-)

Contributing editor, *Encyclopedia of Stratigraphy*

Editorial Board, *Journal of Earth Systems Science Education* (1999-)

DOSECC (*Continental drilling*) Board of Directors (representing Purdue University) (1999-)
DOSECC Science Planning Committee (2004-2007)

CHRONOS Board of directors (2004-Present) (www.chronos.org; a multi-institution program funded by NSF) for developing major databases for Earth history research and education. Websites: www.eas.purdue.edu/chronos/ for overview.

PaleoStrat Advisory board of PaleoStrat (www.paleostrat.org) for outcrop-based stratigraphic data (funded by NSF). Invited to serve, beginning in Jan 2007.

3. Past National and International Professional Activities

Associate Editor: *Journal of Geophysical Research* (3-year term, 1994-1997)

U.S. Science Advisory Committee (USSAC; under NSF) to Ocean Drilling Program and Joint Institutions of Oceanography [NSF contractor for Ocean Drilling Program] (3-year term, 1995-1998)

Circum-Pacific Jurassic Research Group, International Geological Correlation Program (Project #171) (member, 1983-88).

Global Sedimentary Geology Program (International Union of Geological Sciences) (1987-1991)

Cyber-Infrastructure Task Group for the Earth Sciences (2004)

Glossary of Geology, Assistant editor (*stratigraphy*) for 2005 edition (American Geological Institute)

SEPM Electronic-Publishing Task Group (2003-2005)

ICS Working Group on the Triassic-Jurassic Boundary (1986-2008)

4. International Ocean Drilling Cruises and Expeditions

Served on 10 DSDP-ODP legs (1980-2004) in capacities of paleomagnetist, sedimentologist, and core-log integration specialist:

DSDP Leg 76, Western North Atlantic (Paleomagnetist and Sedimentologist); 1980 (Oct-Dec)

DSDP 89, Western Central Pacific (Paleomagnetist); 1982 (Oct-Nov)

DSDP 93, Western North Atlantic (Sedimentologist and Paleomagnetist); 1983 (May-June)

ODP Leg 103, Eastern North Atlantic (Paleomagnetist and Sedimentologist); 1985 (Apr-June)

ODP Leg 123, Indian Ocean and NW Australia (Stratigrapher and Paleomagnetist); 1988 (Aug-Nov)

"Lost Ocean Expeditions"; Nepal Himalayas, Mesozoic passive margin stratigraphy and paleomagnetism (international group paleontologists and stratigraphers, in coordination with Ocean Drilling Program Legs 122-123); 1988 (Mar-Apr) and 1991 (Mar-Apr)

ODP Leg 129, Western Equatorial Pacific, (Stratigrapher and Sedimentologist); 1989 (Nov-Jan)

ODP Leg 144, Central Pacific (Sedimentologist and Core-Integration Specialist); 1992 (May-July)

Jurassic/Cretaceous Boundary (Mexico, California, Spain); sponsored by NSF through University of Texas at Dallas and by University of Mexico (Stratigrapher); 1994 (May-June)

ODP Leg 171, Atlantic Shelf of Florida (Stratigrapher and Paleomagnetist); 1997 (Jan-Feb)

ODP Leg 192, Ontong Java Plateau, Equatorial Pacific (Stratigrapher); 2000 (Sept-Nov)

ODP Leg 207, Demerara Rise, Equatorial Atlantic (Paleomagnetist); 2003 (Jan-Mar)

5. Current Scholarly Associations

Membership in:

Geological Society of America (GSA)

American Geophysical Union (AGU)

Society of Sedimentary Geology (SEPM)

American Association for the Advancement of Science (AAAS)

II. TEACHING

A. TEACHING ASSIGNMENTS AND COURSE EVALUATIONS AT PURDUE (1986-2000)*

Year	Course	Title	Credit, & Type	Enroll	Student Level	Course Evaluation	Instructor Evaluation
1986, Fall	Geos 104	Oceanography	3, Lect.	210	F-Sr		
1987, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	10	J-Sr-G	4.2	4.5
1987, Fall	Geos 104	Oceanography	3, Lect.	190	F-Sr	3.7	3.7
1988, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	18	J-Sr-G	4.8	4.9
	Geos 591K	Sed. Petrology	3, Lect.-Lab	4	J-Sr-G		
1988, Fall	Geos 591B	Paleomagnetism	3, Lect.-Lab	5	J-Sr-G		
1989, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	5	J-Sr-G	4.3	4.3
1989, Fall	Geos 104	Oceanography	3, Lect.	183	F-Sr	3.7	3.9
1990, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	6	J-Sr-G		
	Geos 591R	Paleoclimate	3, Lect.	3,+5 audit	J-Sr-G		
1990, Fall	Geos 104	Oceanography	3, Lect.	258	F-Sr	3.4	3.6
1991, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	5	J-Sr-G		
1991, Fall	Geos 104	Oceanography	3, Lect.	393	F-Sr	3.3	3.4
1992, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	4	J-Sr-G		
1992, Fall	Geos 104	Oceanography	3, Lect.	363	F-Sr	3.5	3.7
1993, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	4	J-Sr-G		
	Geos 104	Oceanography	3, Lect.	193	F-Sr	3.6	3.6
1993, Fall	Geos 104	Oceanography	3, Lect.	300	F-Sr	3.6	3.8
1994, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	8	J-Sr-G		4.8
	Geos 391	Global Change Modeling	3, Lect-Lab	11	J-Sr-G	4.1	4.2
1994, Fall	Geos 191	Home Planet	3, Lect	3	J-Sr-G		
	Geos 104	Oceanography	3, Lect.	290	F-Sr	3.1	3.1
1995, Spr	Geos 391	Global Change Modeling	3, Lect-Lab	13	J-Sr-G	4.3	4.2
	Geos 474	Sedim.&Strat.	4, Lect-Lab	20	J-Sr-G	4.9	4.7
1995, Fall	Geos 104	Oceanography	3, Lect.	270	F-Sr	4.1	4.1
1996, Spr	Atms 420	Global Change Modeling	3, Lect-Lab	10	J-Sr-G		3.9?
	Geos 474	Sedim.&Strat.	4, Lect-Lab	20	J-Sr-G		4.5
1996, Fall	Geos 104	Oceanography	3, Lect.	220	F-Sr		4.1

* Notes:

Teaching loads in 1988 Fall, 1989 Fall, and 1991 Spring were reduced because of research commitments which provided academic salary.

Evaluation of teaching is taken from the Instructional Evaluation Summary: Question #10 ("*When compared to other instructors I have had, this instructor was ...*") and Question #15 ("*When compared to other courses I have had, this course was ...*"), in which the highest rating is a "5", a "good" rating is "4", and an "average" rating is "3". In courses with enrollments less than 6, the responses are not tabulated by the department, therefore the ratings were computed directly from the returned questionnaires. For comparison, the departmental averages for Instructor Evaluation for all EAS faculty from 1985-1993 are: 3.7 for 100-level courses, 4.4 for undergraduate courses (200-400), and 4.5 for graduate courses.

Course evaluation statistics for sessions having enrollments less than 5 are not tabulated by the Department; therefore the averages (in *italics*) are compiled directly from the computer forms. Dual-listed courses (e.g., Geos 391/FNR 498 in Spring, 1995) had only evaluations for the Geos portion of enrollment provided to the Department.

1997, Spr	Atms 420	Global Change Modeling	3, Lect-Lab	20	J-Sr-G		
	Geos 474	Sedim.&Strat.	4, Lect-Lab	16	J-Sr-G		
1997, Fall	Geos 104	Oceanography	3, Lect.	250	F-Sr		
1998, Spr	Geos 104	Oceanography	3, Lect.	198	F-Sr		4.1
	Geos 474	Sedim.&Strat.	4, Lect-Lab	8	J-Sr-G		4.0
1998, Fall	Atms 420	Global Change Modeling	3, Lect-Lab	4	J-Sr-G		4.0
	Geos 104	Oceanography	3, Lect.	239	F-Sr		4.1
1999, Spr	<i>(Sabbatical)</i>						
1999, Fall	Atms 420	Global Change Modeling	3, Lect-Lab	3	J-Sr-G		
	Geos 104	Oceanography	3, Lect.	220	F-Sr		
2000, Spr	Geos 474	Sedim.&Strat.	4, Lect-Lab	8	J-Sr-G		
2000, Fall	EAS 104	Oceanography	3, Lect.	167	F-Sr	3.6	4.0
	EAS 109	Dynamic Earth	3, Lect.	75	F	4.1	4.3
2001, Spr	EAS 474	Sedim.&Strat.	4, Lect-Lab	5	J-Sr-G	4.7	4.9
	EAS 420	Global Change Modeling	3, Lect-Lab	3	J-Sr-G	5.0	5.0
2001, Fall	EAS 104	Oceanography	3, Lect.	145	F-Sr	4.3	4.7
	EAS 109	Dynamic Earth	3, Lect.	75	F	3.4	4.2
2002, Spr	EAS 474	Sedim.&Strat.	4, Lect-Lab	5	J-Sr-G	4.7	4.9
	EAS 591f	Remote Sensing.	3, Lect-Lab	6	J-Sr-G	n/a	n/a
2002, Fall	EAS 104	Oceanography	3, Lect.	136	J-Sr-G	4.3	4.8
	EAS 109	Dynamic Earth	3, Lect.	73	F	3.9	4.6
	EAS 473		3, Lect	2	F-Sr	n/a	n/a
2003, Spr	EAS 390	Field Methods	3, Lect-Lab	3	J-Sr	n/a	n/a
2003, Fall	EAS 104	Oceanography	3, Lect.	138	F-Sr	4.7	4.1
	EAS 109	Dynamic Earth	3, Lect.	61	F	4.1	3.3
2004, Spr	EAS 474	Sedim.&Strat.	4, Lect-Lab	8	J-Sr-G	4.7	4.9
2004, Fall	EAS 104	Oceanography	3, Lect.	132	F-Sr	3.9	4.2
	EAS 109	Dynamic Earth	3, Lect.	68	F	4.2	4.5
2005, Spr	EAS 191	Oil !	3, Lect.	24	F-Sr	4.3	4.8
2005, Fall	EAS 104	Oceanography	3, Lect.	135	J-Sr-G	4.0	4.4
	EAS 151	Oil !	3, Lect.	24	F-Sr	4.6	4.6
2006, Spr	EAS 474	Sedim.&Strat.	4, Lect-Lab		J-Sr-G	3.7	4.1
2006, Fall	<i>(Sabbatical)</i>						
2007, Spr	<i>(Sabbatical)</i>						
2007, Fall	EAS 104	Oceanography	3, Lect.	140	J-Sr-G	4.1	4.5
	EAS 151	Oil !	3, Lect.	54	F-Sr	4.2	4.3
2008, Spr	EAS 391	Energy (<i>joint</i>)	3, Lect.		F-Sr		
2008, Fall	EAS 104	Oceanography	3, Lect.	140	J-Sr-G		
	EAS 151	Oil !	3, Lect.	75	F-Sr		
2008, Spr	EAS 591	Geoinformatics	4, Lect-Lab	15	J-Sr-G	[joint]	

B. SELECTED DISCUSSION OF COURSES

“**Oil !**”. Originally taught as EAS 191 (Spring) with enrollment of 24 (limited by room size), approved a large EAS 151 course for Fall 2005, and currently capped at 80 (room

size). This is intended to become a dual-listed course with Liberal Arts (political science, economics).

Oceanography (EAS 104) – enrollment is capped by room size to 140.

III. OTHER CONTRIBUTIONS TO UNDERGRADUATE EDUCATION

A. INDEPENDENT OR TUTORIAL COURSES

EAS 104 "Oceanography" is an independent study program designed by James Ogg and administered through the Center for Instructional Research. There have been students taking this course every semester since 1988.

Geos 591 directed-study courses in "Marine Biology" (Spring, 1998), "Simulating the Earth", "Marine Mammals", "Modeling the Earth", "Applications of Paleomagnetism", "Cycle Stratigraphy" (Summer, 1998) have been provided to certain undergraduate and beginning graduate students who wish to pursue advanced topics in the marine sciences or other fields.

Graduate independent studies, research, and theses in paleoclimate, sedimentology, stratigraphy, and paleomagnetism have also been supervised each semester.

B. UNDERGRADUATE RESEARCH PROGRAM

1987 Martha Sutula -- Pacific plate motion (senior project)

1988 Russell Schwab -- Oxfordian magnetostratigraphy; paleomagnetism data analysis programs

1990 Beth Hunt -- Statistics of paleomagnetic data

1992 Brian Greer -- Stratigraphy of Cretaceous guyots of the Pacific

1994-5 Richard Jones -- Visualization of Earth Systems

1995 Diane Jones -- Comprehensive Mesozoic time scale

1997 John Foster -- Eocene-Paleocene magnetic time scale (including Oxford visit)

1998 Charlene Fricker -- Paleozoic time scale

2001-2004 Hilary Smith -- Mid-Cretaceous super-greenhouse

2002 Megan Martz -- Cretaceous carbon cycle

2004-2005 Edward Webb -- GSSP database

2004-2005 Hilary Hubard -- GSSP database

2004-2006 Justin Fitch -- Paleozoic integrated stratigraphy

2003-2008 Grace Conyers -- GSSP and Phanerozoic databases, Human time scale

2004-2007 Adam Lugowski -- TimeScale Creator JAVA software system

2007-2008 Alex Huang -- Australian and New Zealand databases

2008-2008 Jessica Griffin -- Arctic and North Sea databases

2008-2009 Jen Hui Chen -- Russian and India databases

2008-2009 Fred Chen -- Phanerozoic genera (32,000) database

C. **OUTREACH ACTIVITIES** (K-12; general undergraduate; and geoscience public) – *only 2007-2008 is summarized below.*

1. **Printed Material on Earth's History**

Since 2004, as part of our role in the International Commission on Stratigraphy, we (Jim Ogg & Gabi Ogg) have concentrated on global distribution of free or “at cost” teaching resources for Earth History. Funding for production of these products have been sponsored by a consortium of petroleum companies (ExxonMobil, ChevronTexaco, BP, Statoil, Shell, ENI, Conoco), Australian National University, Geoscience Australia, the International Union of Geological Sciences (IUGS, headquartered in Norway) and EAS/Purdue. Some are joint products to be distributed by UNESCO (Commission for Geologic Map of the World).

“**TimeScale Creator**” (Version 1 released in November, 2005; Version 2 in September, 2006; Version 3 in March, 2007; Version 4 in March, 2008; along with an industrial “Time-Scale Creator Pro”). This is our continuously-expanding “flagship” database-visualization system with hyperlinks to our stratigraphic-information website (www.stratigraphy.org). Copyright is held by Purdue University. The major “versions” are a new software package, but database updates/enhancements are mounted approximately every three months. This free JAVA-based visualization application has a built-in database of approximately 25,000 biologic, magnetic and other major events in Earth's history (status in Dec'08), plus an extensive set of geochemical and sea-level curves. The user selects the interval of time, chooses the type of data to be displayed, and this windows into Earth's history appears on the screen, or can be downloaded as an SVG or PDF file for use in popular graphics programs. Pro Version 2 and Public Version 4 (March 08) included capabilities for lithologic columns, images of paleogeographic maps, range charts, URL-hotlinks, and other requested features. The Pro” version has capabilities for uploading in-house stratigraphy and advanced graphic-output for specialists. The extension to regional geology has produced joint public products in coordination with Geoscience Australia, New Zealand geologic survey, British Geologic Survey, Austria Stratigraphy Commission, etc.

Poster “**History of the Earth**” (geologic time scale, life-through-time, and global reconstructions). This was one of our contributions for the United Nations 2008 “International Year of Planet Earth”. The target audiences are secondary schools.

500 copies were printed/distributed in March-April 2007 through Australian National University (who funded it)

2000 copies were printed/distributed in summer 2007 through Geoscience Australia (who funded it).

3000 were printed/distributed in Nov'07-May'08 through EAS/Purdue (funded by EAS, with partial support from IUGS) – 500 at GSA 2007, 300 at AGU, 300 for Indiana geoscience teachers conference, 500 at GSA 2008, and 1000 intended for national distribution through AGI or NAGT.

Another printing with both English and French versions will be done by IUGS and the UNESCO Commission for the Geologic Map of the World for the United Nations 2008 “International Year of Planet Earth”. I am invited to Paris (March, 2008) to prepare this with the UNESCO commission.

Poster “**A Geologic Time Scale 2008**” (3x2 feet; prepared and printed in coordination with UNESCO Commission for the Geologic Map of the World). The first printing was sold out at the International Geological Congress (Oslo, August, 2008).

Australian Geo-History on-line – this is a version of the geological Time-Scale Creator that we developed with Geoscience Australia (the Australian geological survey) during 2007-2008. In addition to the standard international suite, this version contains lithologic columns (about 100) of all Australian Phanerozoic basins, with each formation hot-linked into the GA Oracle database. Images of paleogeographic maps (about 50) are also hot-linked into on-line text of Australian history. The suite also includes reference wells for all major oil-gas reservoirs. This system is intended to be a model to put the geology of other continents “on-line”, and we will coordinate the next phase with the new One-Geology program and the UNESCO Commission for the Geologic Map of the World.

Human Time Scale Creator – this is a version of the geological Time-Scale Creator that has records of all major cultures, prehistoric tool “zones”, ice core data and other environmental data. This is for an entirely different audience, and the first version will be released for audience testing in Spring 2008. This was developed by one of my undergrad research assistants.

Chart “**International Divisions of Geologic Time**” is freely available through the International Commission of Stratigraphy website (www.stratigraphy.org). [During 2006, this was also in Chinese translation in a review journal in that country]. This chart is now included in Encyclopedia Britannica and other reference/textbooks.

Chart “**Geologic Time Scale 2004**” (A3-sized). During late 2007, a new printing was sponsored by Idemitsu.

Plastic card “**International Geologic Time Scale**”. During 2007 and 2008, new versions were sponsored by Neflex, Chevron, ExxonMobil, ConocoPhillips and ENI. The versions printed by ExxonMobil and Chevron are distributed to their employees and interviewed students.

Mousepad “**International Divisions of Geologic Time**”. We were invited to Paris in March and in June 2008 by the UNESCO Commission for the Geologic Map of the World to produce a new version for the 2008 “International Year of Planet Earth”. The first printing was sold out at the International Geological Congress (Oslo, August, 2008).

Bookmark “**International Geologic Time Scale**”

Paleomag software (www.eas.purdue.edu/paleomag/) was designed for both research and undergraduate-level instruction. A student-oriented tutorial and sample instructional-lab is included.

2. *Direct involvement with K-12 Schools*

Spring 2007, I was part of “Researching with Scientists” program of CSIRO (Australia). As part of this program, I supervised 3 high-school students on database projects related to our “*TimeScale Creator*” and “*Human TimeScale Creator*” systems and joint work with climate cycles.

“*Climate Change and Egypt*” presentations to Lyneham High School and to Canberra Girls High School, Canberra, Australia (Spring, 2007).

3. *Media interviews:*

- (1) “*Time Lords*”, Nature, May 2004 (v. 429; pg. 123-124) – An article in which I was interviewed about the International Commission on Stratigraphy and standardization of the geologic time scale. (I also helped write the text.)
- (2) “*Geologic Time Gets a New Period*”, BBC News, 17 May 2004 – A short news article about our establishment of the Ediacaran Period (latest Precambrian; beginning at the end of Snowball Earth conditions). There was also a brief news item in the global broadcast edition.
- (3) Discover magazine, March 2007, on *Earth History* for their potential special issue accompanying “International Year of Planet Earth”.
- (4) Science magazine, “*A Time War Over The Period We Live In*” (26 Jan, 2008; v. 319: 402-403) – interview with Richard Kerr on defining the Quaternary.
- (5) Phone interviews with Ottawa Citizen and the Current Science (both in Feb, 2008) about the Anthropocene (a proposed stage of the Holocene to encompass the past 200 years). The Ottawa Citizen article was picked up in several Canadian newspapers.
- (6) Science News magazine, “*Paleozoic Sealevels*” (Oct, 2008)

IV. CREATIVE ENDEAVOR, RESEARCH AND SCHOLARSHIP

A. Current Research Program – *selected aspects*

Main Goal – Establishing a high-resolution time scale and database framework for understanding processes and linkages within the Earth system (climate, oceans, atmosphere, life, tectonics) throughout time.

1. Earth History databases and compilations (*TimeScale Creator, Concise Geological Time Scale 2008*); and International Commission on Stratigraphy

The *Concise Geological Time Scale 2008* is the main product of my 2006-07 academic sabbatical and research leave. This is a comprehensive review of all geological time divisions and the associated absolute (millions of years) time scale. As with the 2004 version, this program involves a large global network of geoscientists contributing their expertise. But, in contrast, this concise book is mainly authored by myself, with Gabi Ogg doing all the graphics.

In my role as *Secretary General* of the International Commission on Stratigraphy (serving through 2008), I coordinated activities of 16 subcommissions (with over 500 members, and an annual budget of about \$50,000). These groups are responsible for deciding the global definitions of all geological stage divisions, for coordinating databases and standards for all types of stratigraphic methods, and for compiling a common international geological time scale and "code" for stratigraphy. Our ICS web site with a wealth of information is www.stratigraphy.org; which is mainly compiled by myself and Gabi Ogg. This website has achieved success by providing authoritative free charts and continual "state-of-the-science" updates.

Our major *TimeScale Creator* database and visualization system is explained under "Outreach" on the first pages of this report. In 2007, we had an exciting collaboration with Geoscience Australia to digitize a summary of all of Australia's basin geology, including on-line linkages to their Oracle database for additional in-depth material. This will be a prototype for our efforts in the coming years to place all Earth history onto a convenient framework that is accessible to both the general public and to specialty researchers. At this point, everyone is delighted to contribute, and we give adequate credit (or blame) to all those who provide the data and correlations.

Funding for these programs are from NSF, IUGS and a consortium of petroleum companies.

2. Climate Cycles of the Mesozoic

Paleoclimate research has led to the realization that quasi-periodic oscillations in the Earth's orbit and axial tilt have been a major driving factor in past climate variations. In addition to their role in governing the Quaternary glacial episodes, these astronomical-forced oscillations have left their record in variations of surface climate and weathering, ocean circulation and productivity, and other features captured in the sedimentary record. Resolving this sedimentary 'metronome' from outcrops and cores has enabled a revolution in Earth system science. Global marine sequences, ocean anoxic events, and even biotic extinctions are connected with long-period astronomical modulations. Precise prediction of the superimposed fine-scale oscillations into the distant past is the basis for high-resolution calibration of the Cenozoic timescale, and is rapidly becoming the foundation for Mesozoic-Paleozoic scaling.

This new NSF-sponsored project to decipher past climate cycles from the geologic record and to use these to construct a ultra-high resolution time scale will involve myself (for stratigraphy), Linda Hinnov (Johns Hopkins, for numerical analysis methods) and a team at Arizona State University (for on-line tool boxes that can be used by all geoscientists).

B. PUBLICATIONS

James Ogg has published over 100 articles and coordinated 2 books as first or co-author on aspects of stratigraphy in refereed journals since 1986, and has contributed to over 70 chapters in Deep Sea Drilling Project and Ocean Drilling Program volumes.

Citations (*Aug 2007, statistics*):

Lifetime (*unique articles citing one or more of mine*) = **1860** different articles (NOTE – many cite more than one of my papers, but these were counted as a single “citing article” for convenience).

Total unique articles per year (*citing one or more of mine*) -- *I could not yet find out to easily extract totals for all individual citations.*

2008 (as of 5 Mar) = 15

2007 = 180

2006 = 155

2005 = 122

2004 = 85

2003 = 94

2002 = 87

2001 = 86

2000 = 81

1999 = 103

1998 = 100

1997 = 79

1996 = 65

Average citations per article = 22.4 (h-index = 21)

Average over past five years = **over 120 per year** [*most are from my geological time scale papers*].

NOTE: Books, including our including our major Geologic Time Scale 2004 book, and articles published in special volumes by AGU, GSA, SEPM or Ocean Drilling Program, are not included in the citation index. These books and special volumes incorporated a significant number of my publications during the past years.

1. Refereed Articles and Books

1978

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Channell, J.E.T., J.G. Ogg, and W. Lowrie (1982) Geomagnetic polarity in the Early Cretaceous and Jurassic. Philos. Trans. Royal Society London, Ser.A., 306: 137-146.

Sheridan, R.E., et al. (1982) Early history of the Atlantic Ocean and gas hydrates on the Blake Outer Ridge: Results of the Deep Sea Drilling Project Leg 76. Geol. Soc. Amer. Bulletin, 93: 876-885.

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¹. The journal, *Initial Reports of the Deep Sea Drilling Project*, and its successor, *Scientific Results, Ocean Drilling Program*, are refereed journals with 2 or 3 anonymous reviewers, plus an extensive "in house" review for all articles. Rejection rate for manuscripts is approximately 20%, according to the stated policy of the Ocean Drilling Program chief editor. The "Initial" is a carry-over from the original publication purpose during the 1960's and no longer is valid. Indeed, official regulations prohibit participants on these international drilling programs from submitting their research publications to any other outside journal unless *Scientific Results, Ocean Drilling Program*, has rejected such papers.

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2004 – BOOK coordinator:

- Gradstein, F.M., Ogg, J.G., and Smith, A.G. (coordinators), Agterberg, F.P., Bleeker, W., Cooper, R.A., Davydov, V., Gibbard, P., Hinnov, L.A., House, M.R. (†), Lourens, L., Luterbacher, H-P., McArthur, J., Melchin, M.J., Robb, L.J., Shergold, J., Villeneuve, M., Wardlaw, B.R., Ali, J., Brinkhuis, H., Hilgen, F.J., Hooker, J., Howarth, R.J., Knoll, A.H., Laskar, J., Monechi, S., Powell, J., Plumb, K.A., Raffi, I., Röhl, U., Sanfilippo, A., Schmitz, B., Shackleton, N.J., Shields, G.A., Strauss, H., Van Dam, J., Veizer, J., van Kolfschoten, Th., and Wilson, D., (2004). Geologic Time Scale 2004. Cambridge University Press, ~550 pages.

plus author or co-author of several chapters (all reviewed):

- Gradstein Felix M; Ogg James G; Smith A G., 2004. Chronostratigraphy; linking time and rock. In: A Geologic Time Scale 2004. [Gradstein, F.M., Ogg, J.G., and Smith, A.G., editors; Cambridge University Press] Pages 20-46.
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- Graziano, S., and J.G. Ogg (1994) Lower Triassic magnetostratigraphy in the Dolomites region (Italy) and correlation to Arctic ammonite zones. Eos, 75: 203.

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1996

- Pessagno, E.A Jr., D. Meyerhoff Hull, J.G. Ogg, J. Urrutia-Fucugauchi, and A. Cantu Chapa (1996) Diachronous calpionellid biozones between Mexico and Southern Europe and their impact on the definition of the Jurassic-Cretaceous boundary. Abstracts with Programs - Geological Society of America. 28; p. 191.
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- 2003
- Pringle, M.S., Chambers, L.M., and Ogg, J.G., 2003. Synchronicity of volcanism on Ontong Java and Manihiki plateaux with global oceanographic events? Abstracts of Spring 2003 AGU/EUG (Nice, France).
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- Cervato Cinzia; Huber B; Keane C; Leckie M; Marshall C R; Ogg J; Sikora P; Wardlaw B. 2003. CHRONOS network for Earth system history; development of integrated databases and toolkits accessible through a common portal. Abstracts with Programs - Geological Society of America. 35: 365.
- 2004
- Ogg, J., Gradstein, F.M., and Smith, A.G., 2004. Geologic Time Scale 2004. Abstracts with Programs - Geological Society of America, 36: 74.
- Ogg, J., 2004. Cenozoic-Mesozoic Time Scale 2004. Abstracts with Programs - Geological Society of America, 36: 210.
- Smith, A., and Ogg, J., 2004. Paleozoic-Precambrian Time Scale 2004. Abstracts with Programs - Geological Society of America, 36: 210.
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- 2005
- Gradstein Felix M; Ogg James G. A geologic time scale 2004; why, how, and where next!. Scott David B (chairperson) In: North American paleontology convention, Dinosaurs to dinoflagellates; programme and abstracts. [Abstract, Serial, Conference Document] PaleoBios. 25; 2, Suppl., Pages 52-53. 2005.
- Ogg James G; Knabe Keith; Hardenbol Jan; Lugowski Adam, 2005. Revised "SEPM" Mesozoic-Cenozoic sequence chronostratigraphic charts. Abstracts with Programs - Geological Society of America, 37: 143.
- Ogg, J., and Lugowski, A., 2005. TimeScale Creator. Abstracts with Programs - Geological Society of America,

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Gradstein, F.M., and Ogg, J.G., (2006). Geologic Time Scale 2004 – Why, How, and Where Next! *Volumina Jurassica*, 4: 167-168.

Ogg, J.G., and Przybylski, P. (2006). Jurassic chronostratigraphic charts and a display interface: 1. Hettangian through Aalenian. *Volumina Jurassica*, 4: 199

Przybylski, P., and Ogg, J.G. (2006). “Jurassic chronostratigraphic charts and a display interface: 2. Bajocian through Tithonian. *Volumina Jurassica*, 4: 199]

2007

Menning, M., Ogg, J.G., and Romer, R.L., (2007). A Middle and Late Permian time scale. *Journal of Stratigraphy*, 31, Suppl. 1: 2 pages.

2008 (the listed talks below at GSA and Internat. Geol. Congress had published abstracts, but I haven't yet looked up the details):

C. INVITED LECTURES

1. Professional - INVITED (since 1989)

1989 "Jurassic Magnetic Polarity Time Scale", Kochi University, Japan

1992 "Jurassic through Early Cretaceous sedimentation history of the tropical Pacific", Kiel, Germany

1993 "Mesozoic Time Scale", AAPG annual meeting, New Orleans

1995 "Mid-Cretaceous Sea Levels", (with Ursula Röhl), Carbonate Depositional Environments, Brisbane, Australia.

1996 "Cretaceous Time Scale", Amoco Petroleum (Houston)

Aug, 1996 -- 29th International Geological Congress, Beijing, China, Invited speaker and short-course "Quantitative Stratigraphy" (however, in June, I had to decline due to overload of other commitments, and lack of travel support)

1997 "Milankovitch Cycles and Stratigraphy", Oslo (Norway)

1997 **Keynote:** European Geoscience '98 convention (April, 1998, Birmingham, England): "Ingredients, Cooking and Serving of the Mesozoic-Cenozoic Time Scale"

2000 International Geological Congress -- **Keynote** presentations, (Rio de Janeiro, August 2000):

U. Röhl, J.G. Ogg and G. Wefer (2000) "Astronomical tuning of the Paleocene time scale"

Ogg, J.G., and F. Gradstein (2000) "Perspectives on the Geological Time Scale for the 21st Century"

plus, Convener of the symposium "Stratigraphy in the 21st Century"

2003 Ogg, J., 2003. "The CHRONOS Network for Earth History Databases", Paléocéanographie du Mésozoïque (Mesozoic Paleooceanography), Réunion specialize de la Société géologique de France, Paris 10-11 July 2003.

2004 Ogg, J., 2004. *Mesozoic Time Scale 2004*. International Geological Congress, Florence, Italy, August 2004.

Ogg, J., 2004. *Boundary Stratotypes: Preserving the foundations of the International Geologic Time Scale*. International Geological Congress, Florence, Italy, August 2004.

Ogg, J., 2004. *Status of the Quaternary*. International Geological Congress, Florence, Italy, August 2004.

- Ogg, J., 2004. “*Demerara Rise paleolatitudes and the history of the Gulf of Mexico*”. Ocean Drilling Program Leg 207 conference, Caens, France, Sept 2004.
- 2005 **Keynote:** Ogg, J., 2005. *Geologic Time Scale 2004*, -- SEPM International Conference on Geologic Problem Solving with Microfossils, Houston, Texas, 6-11 March 2005. This was followed by an open roundtable led by Jim Ogg and Felix Gradstein.
- Ogg, J.G. “*Geologic Time Scale 2004*”, International Symposium on Triassic Chronostratigraphy and Biotic Recovery, Chaohu, CHINA, 23-25 May 2005.
- “*International Geologic Time Scale*”, Nanjing University, China, May 2005.
- “*Geologic Time Scale*”, GeoForschungsZentrum Potsdam, July 2005.
- “*Cretaceous Time Scale*”, International Cretaceous Symposium, Neuchatel, SWITZERLAND, September 2005.
- 2006 Ogg, J.G. “*Mesozoic-Cenozoic Chronostratigraphic Charts*”, AAPG, Houston, TX, April 2006.
- Ogg, J.G., and Lugowski, A., “*TimeScale Creator*”, AAPG, Houston, TX, April 2006.
- Ogg, J.G. “*Status of Geologic Time Scale and the Time-Scale Creator Visualization System*”. German Stratigraphic Commission, Frankfurt, Germany, 15 Nov 2006.
- Keynote:** Ogg, J., “*Mesozoic chronostratigraphy*” GSA Penrose, Chronostratigraphy: Beyond the Global Standard Stratotype and Point. Schoss Seggau, Austria, 3-9 June 2006.
- Opening Keynote:** Gradstein, F.M., and Ogg, J.G.. “*Geologic Time Scale 2004 – Why, How, and Where Next!*” 7th International Congress on the Jurassic System, Krakow, Poland, 6-18 Sept 2006.
- plus, Convener of the symposium “*Cyclostratigraphy and Magnetostratigraphy*”
- Ogg, J.G., and Hinnov, L.A. “*Astronomical Scaling of Stages within the Cretaceous and Triassic*”. XIth International Congress for Mathematical Geology, Liege, Belgium, 3-8 Sept 2006.
- plus, Organizer and Convener of the symposium “*Recent developments in the geologic time scale using orbital tuning*”
- Rohl, U., and Ogg, J.G. “*Astronomical-scaling of the Early Paleogene: Integrative Stratigraphy for the Paleocene-Eocene*”. XIth International Congress for Mathematical Geology, Liege, Belgium, 3-8 Sept 2006.
- 2007 **Geological Society of Australia** (invited presentation; Canberra, Apr., 2007), *Russian Black Gold: Russian petro-geology and petro-politics*. [NOTE: Received award for **Best GSA Presentation**, 2007]
- International Congress on Permian and Carboniferous (Nanjing, China; June, 2007) – *Opening Address* (in my role as ICS Secretary General).
- International Congress on Ordovician and Silurian (Nanjing, China; July, 2007) – *Closing Address* (in my role as ICS Secretary General).
- International Quaternary Research Association Congress (invited presentation; Cairns, Australia; Aug, 2007) – *Formalizing the Quaternary The Perspective of the International Commission on Stratigraphy (ICS)* (in my role as ICS Secretary General).
- Novazem (invited presentation – conference on Barents Sea hydrocarbon exploration; Oslo, Norway; Oct, 2007) – *TimeScale Creator Pro*.
- Geoscience Australia (invited seminar, Canberra; Dec., 2007) “*Integrated Time Scales for Phanerozoic: Databases & Tools, and applications within Geoscience Australia*”.

- American Geophysical Union (**Invited Keynote**; San Francisco; Oct, 2007) – *Story in the Sediments: Jurassic-Cretaceous Paleooceanography*.
- 2008 Hinnov, L.A., Ogg, J., Applications of the sedimentary record of astronomically-driven paleoclimate oscillations and trends, AAPG Annual Convention, San Antonio, TX, 20-23 April. (**SEPM Excellence in Oral Presentation Award**).
- International Geological Congress**, Oslo, Norway, August 2008. [Gradstein, F.M., and Ogg, J.G. were joint-conveners of a session on the geologic time scale.]
- Opening Keynote**: Ogg, J.G., *The International Geologic Time Scale – Status of boundary definitions*.
- Gradstein, F.M., and Ogg, J.G., *Recent developments in the geologic time scale*.
- Hinnov, L., and Ogg, J.G., *An astronomical time scale for the Mesozoic Era*.
- Menning, M., and Ogg, J.G., *A Middle and Late Permian time scale calibrated by cycles and radio-isotopic age determinations*.
- Hinnov, L., and Ogg, J.G., *Solving Earth history problems with the Astronomical Time Scale*.
- Hinnov, L., Lockair, R., and Ogg, J.G., *The Cretaceous astronomical time scale*.
- Hinnov, L., and Ogg, J.G., *Construction of the Cretaceous astronomical time Scale. Part 1: Early Cretaceous*.
- Lockair, R., Hinnov, L., and Ogg, J.G., *Construction of the Cretaceous astronomical time Scale. Part 2: Late Cretaceous*.
- Geological Society of America** annual meeting, Houston, October 2008. [Hinnov, L., and Ogg, J.G. were joint-conveners of a session on cycle stratigraphy.]
- Lockair, R., Hinnov, L., and Ogg, J.G., *The Cretaceous Astronomical Time Scale*.
- Boulila, S., Ogg, J.G. (presenter), Galbrun, B., and Hinnov, L., *Pacific Spreading Rates during Middle Jurassic through Early Cretaceous: Astronomical Cycle-Derived Durations of M-Sequence Polarity Chrons*.
- Hinnov, L., Lockair, R., Ogg, J.G., and Huret, E., *Absolute Age of the Cretaceous-Paleogene Boundary at the Precessional Scale*.

2. Professional - Submitted Presentations at meetings (past twelve years)

- 1993 Gradstein F M; Hardenbol Jan; Agterberg F P; Ogg J G; Huang Z., 1993. *A Mesozoic time scale*. Seventh meeting of the European Union of Geosciences, 1993.
- 1994 "Oxfordian Magnetic Polarity Time Scale", 4th International Jurassic Congress, Mendoza, Argentina
- 1994 "Early Triassic Magnetic Polarity Time Scale", (with Stefania Graziano), American Geophysical Union Annual Meeting, San Francisco
- 1995 "Aptian-Albian Sea-Level History", (with Ursula Röhl), German Ocean Drilling Program, München
- 1997 "Oxfordian Magnetic Time Scale", (with Angela Coe), American Geophysical Union annual meeting, San Francisco
- 1998 "Oxfordian Magnetic Time Scale", (with Angela Coe) 5th International Jurassic Congress
- "Magnetostratigraphy of the Blake-Nose transect", (with Leon Bardot), Ocean Drilling Program conference, Granada, Spain (Feb, 1999)
- "Paleolatitude history of the Florida Margin", (with Leon Bardot), Ocean Drilling Program conference, Granada, Spain (Feb, 1999)

- 1999 “*Astronomical tuning of the Danian time scale*”, (with Ursula Röhl and Tricia Geib), Geological Society of America annual meeting, Denver
 “*Astronomical tuning of Aptian-Albian boundary interval: Oceanic Anoxic Event 1b through Lower Albian magnetic polarity Subchron M^{-2r}*”, (with Ursula Röhl and Tricia Geib), American Geophysical Union annual meeting, San Francisco
- 2000 Gradstein Felix M; Ogg James G. (2000). *Reflections on the geological time scale*. Second Romanian symposium on Palaeontology, 2000.
- 2001 C. Zhang and J.G. Ogg,, “*Paleomagnetic Software for Research and Undergraduate Education*”, Geological Society of America (Boston, Nov 2001).
- 2003 Cervato Cinzia; Huber B; Keane C; Leckie M; Marshall C R; Ogg J; Sikora P; Wardlaw B. 2004. *CHRONOS network for Earth system history; development of integrated databases and toolkits accessible through a common portal*. Geological Society of America, 2003 annual meeting, 2003.
- 2004 Ogg, J., Gradstein, F.M., and Smith, A.G., 2004. *Geologic Time Scale 2004*. Geological Society of America (Rocky Mountain and Cordilleran 100th annual meeting), Boise, Idaho, May 2004.
 Ogg, J., 2004. *Cenozoic-Mesozoic Time Scale 2004*. Geological Society of America Annual Meeting, Denver, Colorado, November 2004.
 Smith, A., and Ogg, J., 2004. *Paleozoic-Precambrian Time Scale 2004*. Geological Society of America Annual Meeting, Denver, Colorado, November 2004.
 Cervato Cinzia; Bowring Samuel A; Fils Doug; Hinnov Linda; Huber Brian; Leckie Mark; Marshall Charles; Ogg James G; Sadler Peter; Wardlaw Bruce R. 2004. *CHRONOS network for Earth system history; integrated databases and toolkits accessible through a common portal; www.chronos.org*. Geological Society of America, Rocky Mountain Section, 56th annual meeting; Geological Society of America, Cordilleran Section, 100th annual meeting, 2004.
- 2005 Gradstein Felix M; Ogg James G. (2005). *A geologic time scale 2004; why, how, and where next!*. North American Paleontology Convention, Dinosaurs to Dinoflagellates, 2005.
 Ogg, J., 2005. *Geologic Time Scale*. The International Symposium on Triassic Chronostratigraphy and Biotic Recovery, Chaohu City, Anhui Province, The People’s Republic of China, 23-25 May 2005.
 Ogg, J., 2005. *Cretaceous chronostratigraphic charts and a display interface*. 7th International Symposium on the Cretaceous, Neuchatel, Switzerland, 5-9 Sept 2005.
 Ogg, J., 2005. *Revised SEPM Mesozoic-Cenozoic Sequence Chronostratigraphy Charts*. Geological Society of America annual meeting, Salt Lake City, October 2005. [This included demonstrations of TimeScale Creator visualization software.]
- 2006 Ogg, J., and Van Couvering, J. “*Time Scale on the Internet: Transparent Consensus and Interactive Upgrades*”. GSA Penrose, Chronostratigraphy: Beyond the Global Standard Stratotype and Point. Schoss Seggau, Austria, 3-9 June 2006.
 Ogg, J.G., and Przybylski, P. “*Jurassic chronostratigraphic charts and a display interface: 1. Hettangian through Aalenian*”. 7th International Congress on the Jurassic System, Krakow, Poland, 6-18 Sept 2006.
 Przybylski, P., and Ogg, J.G. “*Jurassic chronostratigraphic charts and a display interface: 2. Bajocian through Tithonian*”. 7th International Congress on the Jurassic System, Krakow, Poland, 6-18 Sept 2006.

- Ogg, J.G., “*Status and Recommended Definition for Quaternary*”, and “*TimeScale Creator*” at International Commission on Stratigraphy, Leuven, Belgium, September 2006.
- 2007 International Congress on Permian and Carboniferous (Nanjing, China; June, 2007) – Poster – *Carboniferous Time Scale*
 International Congress on Permian and Carboniferous (Nanjing, China; June, 2007) – Poster – *Permian Time Scale*
 International Congress on Permian and Carboniferous (Nanjing, China; June, 2007) – Poster (2nd author) – *A Middle and Late Permian time scale*
 Geological Society of America (Denver; Oct, 2007) – *TimeScale Creator Visualization System of Earth History*.
 American Geophysical Union (San Francisco; Oct, 2007) -- Przybylski, P., and Ogg, J.G. “*Calibration of Pre-M25 Marine Magnetic Anomalies: Magnetic Polarity Composite of Late Callovian Through Kimmeridgian*”.
- 2008

3. Popular and Educational (“invited”) (past ten years)

- 1989 “*Mesozoic Paleoceanography*”, Purdue University
 1990 “*Evolution of the Nepal Himalayas*”, Purdue University
 1991 “*Milankovitch Cycles and the Ocean*”, Purdue University
 1994 “*The Ancient Pacific Ocean*”, University of Cincinnati
 1994 “*Jurassic Paleoceanography*”, University of Texas at Dallas
 1995 “*Massive Disruption of the Global Carbon Cycle during Geological Time*”, New York University
 1996 “*Cretaceous Paleoceanography*”, ETH (Zurich, Switzerland)
 1997 “*The Day the Dinosaurs Died*”, Purdue University (Discovery lecture)
 Same lecture: University of Cincinnati
 Same lecture: University of Maine
 Same lecture: IUPUI (Indianapolis)
 1999 “*It’s Got Rhythm*”, Inst. Geol. & Geophys., New Zealand
 “*The Day the Dinosaurs Died*”, Inst. Geol. & Geophys., New Zealand
 “*The Day the Dinosaurs Died*”, New Zealand Astronomical Society (Wellington)
 “*The Day the Dinosaurs Died*”, Dept. Geophysics, University of Munich
 2002 “*Ocean Drilling and Dinosaur Extinction*”, Cumberland School (grade school class), Lafayette, IN (Jan, 2002)
 “*Superplumes and Ocean Drilling*”, Dept. Geoscience, Eastern Illinois University, Charleston, IL (March, 2002)
 2003 “*Ocean Drilling and Dinosaur Extinction*”, Happy Hollow School, West Lafayette, IN (total of three 5th grade classes; 80 students) (Oct., 2003)
 “*Super-Greenhouse from a Super-Plume: Ancient Climate Evidence from the Deep Sea*”, part of “*Our Changing Climate*” series, Wabash Area Lifetime Learning Association (WALLA), Morton Center, West Lafayette (65 people attended) (Apr., 2003)
 2004 “*Progress and Challenges with the Mesozoic Time Scale*”. NORGES project (consortium of petroleum companies), Oslo, Norway, Sept 2004.
 “*International Geologic Time Scale*”, ExxonMobil Corporation, Houston, Texas, 15 March 2004.

- 2005 “*Interactive Bio-Chrono-Sequence Stratigraphic Charts*”. NORLEX workshop on Some Recent Developments in Stratigraphy, Oslo, Norway, 30 Sept 2005.
 “*Geologic Time Scale 2004*”, University of Florida, Gainesville, Florida, 13 January 2005.
 “*Geologic Time Scale 2004*”, Florida State University, Tallahassee, Florida, 14 January 2005.
 “*From Russia with Love*” (Note: it is actually about Russian petro-politics). Invited presentation -- NORLEX, Recent Developments in Stratigraphy with reference to offshore Norway, Oslo, NORWAY, October 2005.
- 2006 “*TSCreator -- A New Tool in Stratigraphy and Time Scale Applications*”. Geo Workshop, The Novaya Zemlya Project (sponsored by Oslo Museum of Natural History), 17-18 Feb 2006.
 “*From Russia with Love*” (Note: it is actually about Russian petro-politics). Invited presentation – Norwegian Geological Society, Feb 2006.
- 2007 **Australian National University** (invited seminar; Canberra, Apr., 2007), *International Geologic Time Scale*.
Geoscience Australia (invited seminar; Canberra, May, 2007), , *From Russia with Love (of Money and Power)* [Russian petro-geology and petro-politics]
- 2008 **Arizona State University** (invited seminar; Tucson, Arizona; Feb, 2008) – *Russian Black Gold (Petro-geology and Petro-politics)*
ExxonMobil (invited presentation; Houston; Feb, 2008) – *TimeScale Creator Pro Visualization System* (and a workshop)
ExxonMobil (invited presentation; Houston; Feb, 2008) – *Paleozoic time scale and sequence stratigraphy*
Chevron (invited presentation; Houston; Feb, 2008) – *TimeScale Creator Pro Visualization System* (and a workshop)
BP (invited presentation; Houston; Feb, 2008) – *TimeScale Creator Pro Visualization System* (and a workshop)
 Purdue University (Discovery Lecture, EAS): “*Super-Greenhouses and Middle East Oil*” (14 Feb 08)
 “*The Fishery Crisis*”, part of “Sustainability” series, Wabash Area Lifetime Learning Association (WALLA), Morton Center, West Lafayette (65 people attended) (Apr., 2008)
 “*TSCreator – Russian and Arctic databases*”. The Novaya Zemlya Project (sponsored by Oslo Museum of Natural History), Nov, 2008.

4. INVITED PUBLICATIONS

- "*Jurassic magnetostratigraphy - review and compilation*" International Symposium on Jurassic Stratigraphy, Erlangen, Germany, Sept. 1-8, 1984.
 "*Jurassic magnetic polarity time scale*", invited chapter for *The Jurassic of the Circum-Pacific* (G.E.G. Westermann, editor; Elsevier Publ.), Jan, 1989.
 "*Magnetostratigraphic correlation of the Jurassic-Cretaceous boundary, Tethyan and English faunal realms*", invited paper for special issue *Cretaceous Research*, July 1991.
 "*Sedimentation rate curves and discontinuities from sliding-window spectral analysis of logs*", invited summary for *The Log Analyst*, (Dec.1990), [with reprint in *Lamont Borehole Group Logging Manual*], Jan. 1991.

"*Geologic time scale*" and "*Phanerozoic magnetostratigraphy*", invited compilations for the *AGU Handbook of Geophysics*, Nov. 1992.

"*Mesozoic magnetic polarity time scale*". in de Graciansky, P.C., and Hardenbol, J., eds., *Mesozoic and Cenozoic Stratigraphy of European Basins*: Tulsa, SEPM Special Publication 60, 1998.

5. INVITED SHORT COURSES

Fall 1988 -- Dipartimento Scienze della Terra, Universita della Calabria, Consenza, Italy --
Invited to present an intensive short course on "*Magnetostratigraphy*" at the state university.

D. OTHER PRESENTED PAPERS

[See listing of *Published Abstracts and Summaries* for all years.]

E. OTHER PROFESSIONAL ACTIVITIES

1. Outreach products

We have concentrated on global distribution of free or at-cost teaching resources for Earth History. *The current (2007-2008) activities are summarized on the first pages of this Vita (after Teaching).*

2. Invited Participant [NOTE: I stopped listing after 1995, because I was being constantly invited to participate in conferences, etc.; instead, Keynotes and special travel grants are indicated under Professional activities]

1986 Sept. -- "Paleomagnetic Objectives for the Ocean Drilling Program", workshop sponsored by Joint Oceanographic Institutes (Davis, Calif.; travel support from U.S. Science Activities Council), report on recommendations published (1986, 27 pages)

1987 July -- "Second Conference on Scientific Ocean Drilling (COSOD II)", Strasbourg, France; participant in working group on Biota and Evolution in the Marine Environment; report on objectives for future drilling published (1988, about 150 pages)

1987 Sept -- Second International Symposium on Jurassic Stratigraphy, and Subcommittee on Jurassic Stratigraphy (Lisbon, Portugal; served as Convenor of the Magnetostratigraphy Working Group, presented 3 papers (see publications); proceedings in press (1988, 3 volumes).

1989 Mar -- "Co-chief's Review of the Ocean Drilling Program", Texas A&M (3 days)

1989 Apr -- American Association of Petroleum Geologists, Annual Meeting, San Antonio (presented one paper; co-author on three others)

1989 July -- 28th International Geological Congress, Washington, D.C. (presenting two papers; co-author on two others)

1991 July -- "Indian Ocean Paleooceanography" workshop, Cardiff, Wales

1991 Sept -- 3rd International Jurassic Symposium, Poitiers, France (presenting one paper, co-chair session, chairman of working group)

- 1992 Sept -- 4th International Paleoceanography Conference, Kiel, Germany (presenting two papers and one poster)
- 1993 Apr -- American Assoc. Petroleum Geologists, Annual Meeting, New Orleans (presented one paper)
- 1994 Jan & July -- Earth Systems Science Education, 2 meetings in Washington, D.C. (presented development of Purdue's courses)
- 1994 Oct -- 4th International Jurassic Congress, Mendoza, Argentina (presented one paper, chairman of working group)
- 1995 Jan -- Joint Oceanographic Institutions advisory committee (NSF), Washington, D.C.

3. **Journal Reviewer** (usually 7 papers per year)

Geology
 Earth and Planetary Science Letters
 Proceedings Ocean Drilling Program
 Paleoceanography
 Earth Science Reviews

4. **Proposal Reviewer** (usually 4 proposals per year)

NSF -- Earth Science, International Programs, Ocean Science
 NCAR -- Paleoclimate

5. **Book Reviewer** (usually 1 every 3 years)

Principles of Sedimentation and Stratigraphy (by S. Boggs, MacMillan Publ.)
World's Oceans, A.C. Duxbury and A.B. Duxbury: W.C. Brown Publ.), *Oceanography: An Invitation to Marine Science* (by T. Garrison; Wadworth Publ.); and two other manuscripts for oceanography textbooks (not published, perhaps because I gave rather unfavorable reviews).
The Earth System (by J. Kastens, J. Kump and R. Crane; Prentice-Hall Publ.)

F. **FUNDING**

1. **Funding Table**

(Principal Investigator, unless otherwise noted)

- i. "Tethyan Jurassic Pelagic Sediments" (Co-investigator)
 NSF EAR78-10786, Aug,1978-Sept,1981
 \$107,600
- ii. "Magnetostratigraphy of the Late Jurassic, Northern Italy"
 NSF travel grant, International Programs Division
 \$5000

- iii. "*Geomagnetic Polarity during the Jurassic*" (Co-investigator)
NSF EAR81-7739, July, 1981-July, 1983
\$99,979
- iv. "*Early Cretaceous Magnetic Polarity Time Scale, Milankovitch Climate Cycles, and Spreading Rates*"
NSF EAR82-6263, Oct, 1982-Mar, 1984
\$48,241
- v. "*Magnetic Reversal History, Climate Cycles, and Ocean Spreading Rates during the Early Cretaceous*"
NSF grant #INT82-13069, Mar, 1983-Aug, 1985
\$4,780,
- vi. "*Jurassic and Early Cretaceous Tectonic and Sedimentation History of the Central Atlantic, Western Tethys and Pacific Ocean Basins*" (Co-investigator)
NSF OCE82-07771, Oct, 1982-Sept, 1985
\$177,965
- vii. "*The Paleozoic-Mesozoic Boundary*" (Co-Investigator)
NSF EAR84-19125, Jan, 1985-Jan, 1987
\$100,000
- viii. "*A Magnetic Polarity Time Scale from the Early Triassic Stage Stratotypes (Sverdrup Basin, Canadian Arctic)*"
NSF grants DPP-8520910 and DPP87-44206, Apr, 1986-July, 1988
\$51,788 and \$32,028 respectively
- ix. "*Mesozoic Magnetostratigraphy and Correlation of Sediment Facies*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), #1892-003; Sept, 1985-Sept, 1988
\$21,000
- x. "*Stability of the Magnetic Field during the Triassic-Jurassic Boundary Interval: A Test of 'Pulsation Tectonics'*"
Purdue Research Foundation, Summer Faculty XL grant, Summer 1988
\$3900
- xi. "*Birth of the Indian Ocean*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M),
Sept, 1988-August, 1989
\$18,500
- xii. "*Stratigraphy of Eocene Sedimentation of the Monterrey Formation*" (Co-investigator)
NSF Stratigraphy-Paleontology, July 1988 - July 1990
\$7,500 subcontract to Purdue University

- xiii. "*Magnetostratigraphy of the Missippian-Pennsylvanian Boundary*"
Indiana Academy of Science, Apr 1989-Apr 1990
\$750
- xiv. "*Birth and Early History of the Indian Ocean*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Mar 1989
- Oct, 1990
\$28,999
- xv. "*Sedimentation History of the Ancient Pacific, Ocean Drilling Project Leg 129, Western Pacific Ocean*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Nov 1989
- Nov 1990
\$20,228
- xvi. "*Old Pacific Crust and Jurassic Quiet Zone: Paleomagnetic and Rock Magnetic studies ODP Leg 129, East Mariana and Pigafetta Basins, Western Pacific Ocean*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Nov 1989
- Nov 1990
\$7,685
- xvii. "*Jurassic-Early Cretaceous Sedimentary Environments and Paleoceanography of the Pacific, Ocean Drilling Project Leg 129*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), May 1990-Nov 1991
\$22,000
- xviii. "*Origin of the Jurassic Quiet Zone and Paleolatitudinal Motion of the Pacific Plate, Ocean Drilling Program Leg 129*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), May 1990
- Nov 1991
\$20,758
- xix. "*Formation of Pacific Atolls and Guyots during the Cretaceous, Ocean Drilling Program Leg 144*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), May 1992
- Aug 1993
\$23,232
- xx. "*Development and Demise of Pacific Guyots*"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Oct, 1992
- Aug 1994
\$14,000

The following two awarded grants had to be declined because of prior teaching or research commitments:

"Oxfordian Time Scale -- Collaborative Program with University of Warsaw"
National Academy of Sciences, Aug, 1993-Aug, 1994
\$10,000

"Eastern Mediterranean Climatic History, ODP Leg 161"
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Feb, 1995
- Feb, 1996
up to \$25,000, with additional \$15,000 upon completion of drilling leg

xxi. *"IBM-Purdue Water-Climate Modelling Program"* (Co-Investigator)
IBM Corporation, Jan. 1993 - Dec 1997
\$500,000 direct funds + \$1,800,000 equipment allowance

xxii. *"Earth System Science Education Curriculum Development"* (Co-Investigator)
NASA (Universities Space Research Association), July, 1993-June, 1996
\$75,000, plus additional \$50,000 travel allowance for July, 1992-June, 1997

xxiii. *Paleomagnetic stratigraphy on Leg 171, western Atlantic*
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Jan, 1997
- Jan, 1998
\$18,872

xxiv. *Maastrichtian-Paleocene-Eocene time scale of polarity chrons, orbital cycles and biostratigraphy*
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), May 1997-May 1999
\$32,357 (\$24,857 administered by Purdue; plus \$7,500 travel for cooperative research at Oxford University, England, and University of Bremen, Germany)

xxv. *An integrated Earth & Atmospheric Science computer laboratory for undergraduate instructional improvement*
NSF (Aug, 1997-July, 1999)
Co-PI with Carol Clayson, Larry Braile, Jon Harbor, Grant Petty
\$39,115

xxvi. *Sedimentation history of Ontong Java Plateau (Ocean Drilling Program, Leg 192, equatorial Pacific)*
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Sept, 2000 - Sept, 2001
\$18,872

- xxvii. *The Environmental Impacts of the Ontong Java Plateau: Aptian and Albian Paleooceanography of the Tropical Pacific Basin*
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), May 2001-May 2003
\$31,071 (*plus separate travel grants to College Station, TX and La Jolla, CA for sample collection during May 2001 and August 2001, respectively*)
- xxviii. *Integration of Chronostratigraphic Databases for the 21st Century*
NSF (Oct., 2001-Oct., 2002)
PI, with Paul Sikora (Univ. Utah) as Co=PI
\$26,000 (*administered through Purdue*)
- xxix. *Geological Time Scale 2003 – Compilation, production and publication of the modern geological time scale*
Exxon-Mobil Exploration Company (Jan, 2002-Dec, 2003)
PI, with Felix Gradstein (Oslo University, Norway) as Co=PI
\$20,000 (*administered through Purdue*)
- xxx. *Paleooceanography of the Atlantic-Caribbean-Pacific Seaway (participation on Ocean Drilling Leg 207)*
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Jan, 2003 - Dec, 2004
\$36,129 [*plus travel support to Barbados/Brazil*].
- xxxi. *Magnetostratigraphy of Leg 207 sites, and cycle-durations of Campanian through Eocene magnetic polarity chrons*
NSF (U.S. Science Support Program, Ocean Drilling Project) (through Texas A&M), Jan, 2003 - Dec, 2005
\$30,226 [*plus travel support to Germany*].
- xxxii. *Chronos Network for Earth System History: Development of Integrated Databases and Toolkits Accessible through a Common Portal.*
NSF (Purdue had the following independent grant, as part of a larger multi-institution award), Aug, 2003 - July, 2006 (including no-cost extension)
\$129,999 [*plus travel support for meetings*]
- xxxiii. *Chronos Network for Earth System History: (1) Time Scale of Earth History – database enhancement, tools and visualization; (2) Database Development for Magnetostratigraphy.*
NSF (through Iowa State University); Sept, 2005 - Aug, 2007 (including no-cost extension)
\$30,00 [*plus travel support for meetings*]

Current Grants:

“An Astronomical-Calibrated Time Scale for the Mesozoic Era”

NSF (co-PI); July, 2007 - June, 2010

\$163, 535 (*Purdue share*)

"Digital Time Scale"

Unrestricted donations from Geoscience Australia, BP, Univ. Oslo, Saga Petroleum, Norsk Hydro, UNOCAL, Amoco, and private donors. Jan. 1993 -

Total of about \$250,000 received (1993-2008).

Support of annual activities of International Commission on Stratigraphy

IUGS (International Union of Geological Societies) – budget granted in March each year:

\$35,000 (2001); \$34,000 (2002); \$35,000 (2003), \$50,000 (2004), \$30,000 (2005), \$30,000 (2006), \$30,000 (2007), \$40,000 (2008) (*administered separately by J.Ogg, not co-mingled with Purdue funds*)

ICS (Subcommission on Stratigraphic Information) – budget granted in September, 2008:

\$21,000 (2008) (*administered separately by J.Ogg, not co-mingled with Purdue funds*)

I have continual interaction with major petroleum corporations (mainly ExxonMobil, BP, Shell, StatoilHydro, Chevron and ConocoPhillips), but most of the fund-raising has gone into our international outreach activities and support to the International Commission on Stratigraphy. This consortium provided EAS a grant during late 2006 that funded 3 months of my (Spring 2007) research leave.

Other Fellowships, Travel Grants, and Fully-Reimbursed Conference Participation:

- 1980 Deep Sea Drilling Project Leg 76, 4 months salary, expenses to Norfolk and from Ft. Lauderdale
- 1982 Deep Sea Drilling Project Leg 89, 3 months salary, expenses to Tokyo and from New Caledonia
- 1983 Deep Sea Drilling Project Leg 93, 3 months salary, expenses to and from Norfolk
- 1984 American Geological Institute travel award, 27th International Geological Congress, Moscow, USSR
- 1985 Ocean Drilling Program Leg 103, 3 months salary, expenses to Norfolk and from Germany
- 1987 Joint Oceanographic Institutes, travel support to Conference on Scientific Ocean Drilling (COSOD II), Strasbourg, France
- 1987 Purdue Travel Grant to attend Jurassic Stratigraphy Symposium, Lisbon, Portugal
- 1988 Ocean Drilling Program Leg 123, 3 months salary (xi, above), travel to and from Singapore
- 1988 Dipartimento Scienze della Terra, Universita della Calabria, Consenza, Italy, visiting professorship, taught 2-week short course in December; salary and expenses reimbursed.
- 1989 Ocean Drilling Program Leg 129, 3 months salary (xv, above), travel to and from Guam
- 1991 Workshop on Indian Ocean Paleooceanography, travel to and from Cardiff, Wales and expenses

- 1992 Ocean Drilling Program Leg 144, 3 months salary (xix, above), travel to Majuro and from Tokyo
- 1992 National Academy of Sciences, Project development visit to Poland, August 1992.
- 1992 4th International Conference on Paleoceanography, Kiel, Germany, 1000 DM grant as invited speaker.
- 1992 Purdue Research Foundation -- Travel Grant to 4th International Conference on Paleoceanography, Kiel, Germany
- 1993 Special Graduate Fellowships, total award of \$18,000, from Purdue for special initiatives (Earth Systems, women in Geosciences)
- 1997 Ocean Drilling Program Leg 171, 3 months salary (xxiii, above), travel to Barbados (Caribbean); and Granada, Spain
- 2000 PRF Travel Grant to Rio de Janeiro for the International Geological Congress (I was a session convener, plus invited speaker in another session), Aug, 2000.
- 2000 Ocean Drilling Program Leg 192, 3 months salary (xxvii above), travel to Guam, San Diego, College Station (Texas) and Pocatello (Idaho)
- 2001 International Commission on Stratigraphy – Conference on Sequence Stratigraphy (Dallas, Texas, 20-23 Aug, 2001)
- 2002 American Geological Institute – Conference on Geological Databases (Washington, D.C., 17-19 January 2002)
- 2003 Ocean Drilling Program Leg 207, 3 months salary (xxx above), travel to Barbados, Rio de Janeiro (Brazil) and Normandy (France)
- 2003 U.S. Geological Survey – Travel support to GSA Annual Meeting, Seattle, 2-5 Nov, 2003.
- 2003 PRF Travel Grant to Florence (Italy) for the International Geological Congress (I was a session convener, plus invited speaker in another session), Aug, 2004.
- 2004 - 2008** – *I didn't keeping track of all of these. It seemed that I was provided with travel grants to about 5 places each year.*
- 2008 PRF Travel Grant to Oslo (Norway) for the International Geological Congress (I was a session convener, plus invited speaker in two other sessions), Aug, 2008.

G. INVOLVEMENT IN GRADUATE RESEARCH PROGRAM

1. Current Graduate Students

Master's Committees

Chairman or Member:

None in 2007

Doctoral Committees

Chairman:

Piotr Przbylski: *“Magnetic Polarity Zonation and European Paleomagnetic Poles for the Upper Jurassic”*. Completed Dec, 2008; currently with BP (Houston)

Member:

Emre Unal: *“Cambrian oncolite fauna”*

2. M.S. and Ph.D. Students Graduated

Master's Committees

Non-completions:

- 1995 Gregory Schrader: "*Modelling of Milankovitch cycles in Jurassic deep-sea sediments*"
 1999 Amanda Hopkins: "*Oxfordian magnetic polarity time scale*"
 2001 Carol Conolly: "*GIS evaluation of Indiana's coal resources*" (was completed and published jointly with Indiana Geological Survey; but not formalized in Purdue thesis format)

Chairman or Co-Chair:

- 1987 Suzanne Kairo: "*The sedimentology, stratigraphy and depositional history of the Cretaceous Split Rock Creek Formation, Minnehaha County, South Dakota*". Now at ExxonMobil.
 1990 Rhonald W. Hasenyager, II: "*Magnetostratigraphy of the Jurassic/Cretaceous boundary -- Tethys and English Correlations*"
 2000 Tricia Geib: "*Astronomical tuning of the Danian and the Aptian-Albian boundary interval time scales*".
 2005 Chunfu Zhang: "*Geochemical signature of orbital cycles in deep-sea sediments*". [Had been PhD until the final months.]

Member:

- 1988 Brenda L. Dextraze: "*The paleoenvironmental effect of high latitudes on the internal growth lines of the Late Eocene biovalve *Eurhomalea Antarctica**"
 1988 Jeffrey D. Stilwell: "*The biostratigraphy of Early Tertiary macroinvertebrates from the La Meseta Formation, Seymour Island, Antarctic Peninsula*"
 1989 Luis Marie Paredes-Mejia: "*Depositional environments and paleontology of the Rosario Formation, North Baja California*"
 1990 Herbert Harmon: "*Coal Petrology of the Illinois Basin*"
 1996 Dave Zinliskas: "*Mexican Ridges Foldbelt*"
 1998 Charlene Fricker:
 2001 John Foster: "*A Field Laboratory and Analytical Study of Progressive Roof Failure in Salamander Cave, Indiana*"

Doctoral Committees

Non-completions:

- 1992 (*member*) -- Peter Sikorski: "*Paleozoic stratigraphy of the Illinois Basin*"
 1993 (*chair*) -- Stefania Graziano (Univ. Calabria, Italy): "*Early Triassic magnetostratigraphy of the Dolomites*"
 2003 (*member*) -- John Teufert: "*GIS disaster management system*"
 2005 (*chair*) -- Chunfu Zhang: "*Geochemical signature of orbital cycles in deep-sea sediments*". But, at end, received only a Masters degree, and now getting another doctorate at Florida State University.

Chairman:

1992 Brian P. Wallick: "*Motion and development of the Pacific Plate from the Middle Jurassic to the Late Cretaceous*". Now with Saudi Aramco.

Member:

1987 Hanafy Holail: "*Stable isotopic composition and its relation to origin and diagenesis of some Upper Cretaceous dolomites and dolomitic limestones from Egypt*"

1990 Zehui Huang (Dalhousie Univ., Halifax): "*Pelagic cyclic sediments from the oceans -- their periodicities and driving force*"

1992 Marilyn Ginger Scarbrough: "*Numerical modelling of the Mexican Ridges Foldbelt, Gulf of Mexico*"

1995 Jim Reichard: "*Groundwater Component of a General Circulation Model*"

1998 Anton Olenik: "*Paleocene-Eocene biogeography of Kamchatka*"

2008 Slah Boulila (University of Paris)

V. SERVICE [*Records are not complete for 2001-2008*]

A. DISCUSSION OF SERVICE

B. DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

Current committees

Field
 Chair of PAC for Darryl Granger
 Serving on the PAC of Jennifer Haase and Tim Filley.

Past committees

1986-1988 Curriculum committee
 1987 Departmental Computing committee
 1987 Faculty Advisor, SEG student club
 1988 Chairman, Search committee for sedimentary geology position
 1988-93 Undergraduate Committee
 1989 Departmental 5-year Plan (writer for geology group)
 1989-90 Chairman, Seminar committee
 1990-91 Seminar committee
 1990-91 Search committee for paleoclimate position
 1991-92 Chairman, Search committee for sedimentology position [Hired Ken Ridgway]
 1992-93 Search committee for atmospheric chemistry position
 1993-01 Graduate Committee
 Chair: 1997-1999
 2001 Search committee for climate position [Hired Tim Filley]
 Former chair of PAC: for Tim Filley, who was recently promoted

C. SCHOOL OF SCIENCES

Current committees

EAS representative for undergraduate education portion of the Accreditation.

Past committees

1995-1996 Chairman, Environmental Minor Committee
 2005-2006 Curriculum Committee

D. PURDUE UNIVERSITY

Current committees

EAS Liaison for international study-abroad (2002-present)

Past committees

1990-1996 Faculty Censure and Dismissal committee
 1998-2000 Faculty Censure and Dismissal committee

Current committees

E. **INTERNATIONAL** – *See section on “Professional Recognition” on first pages.*

F. CONSULTING SERVICES

Current

Geoscience Australia (2006-present). One-and-half months of summer salary provided in 2007 and 2008.

ExxonMobil (2004-present). Migration of their in-house stratigraphy to GTS2004 time scale, producing timescale charts for public distribution, and in-house datapacks for *TimeScale Creator*.

Past (incomplete)

- 1986-88 Paleomagnetic magnetometer computerization (2G Enterprises, and Ocean Drilling Program) -- automated data collection from pass-through cryogenic magnetometer for ocean sediment cores. Software package and manual.
 - 1989 Jurassic paleomagnetism of the Blue Mountain terrain in Oregon -- University of Wyoming -- sampling and data analysis.
 - 1992-94 Mesozoic magnetic polarity time scale -- EXXON Production Research Company, Houston, TX
 - 1993-95 Phanerozoic time scale software and database -- Saga Petroleum (Norway) and Norsk Hydro (Norway)
 - 1994-95 Cenozoic time scale for Gulf of Mexico -- UNOCAL Petroleum (Houston)
 - 1994-95 Jurassic/Cretaceous boundary stratigraphy -- University of Texas at Dallas -- sampling and analysis
 - 1998-99 Cenozoic-Mesozoic time scale -- Saga Petroleum (Sandvika, Norway)
- 2000 onward – period (about 1 week per year) consulting with BP, ExxonMobil, and NORGES/NORLEX.