

**SAIL 2011: Into the I of the Storm; Information  
Resources Undergo a Sea Change  
Texas A&M University at Galveston  
April 5, 2011 – April 8, 2011  
Connecting Researchers and Research**





## At the library, we ♥ our researchers.

### People



Davidson



Link



Humes



Huang



Tyack



Stephen



Whelan



Hanlon



Lentz



Kelemen



Gagosian



Giblin



Stegeman



Farrington



Hare

### Groups

Woods Hole Scientific Community (15453)  
Woods Hole Oceanographic Institution (10417)  
Marine Biological Laboratory (4300)

### Publications

Journal of Geophysical Research (1174)  
Biological Bulletin (716)  
Journal of Physical Oceanography (667)

### Works – Recent additions

#### Deep South China Sea circulation

Journal article

Wang, Guihua, Xie, Shang-Ping, Qu, Tangdong, Huang, Rui Xin  
*Geophysical Research Letters* (2011)

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#### The irminger gyre: Circulation, convection, and interannual variability

Journal article

Våge, Kjetil, Pickart, Robert S., Sarafanov, Artem, Knutsen, Øyvind, Mercier, Herle, more...  
*Deep-Sea Research Part I-Oceanographic Research Papers*

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#### The effects of growth phase and light intensity on toxin production by *Dinophysis acuminata* from the northeastern United States

Journal article

Tong, Mengmeng, Kulis, David M., Fux, Elie, Smith, Juliette L., Hess, Philipp, more...  
*Harmful Algae* (2011)

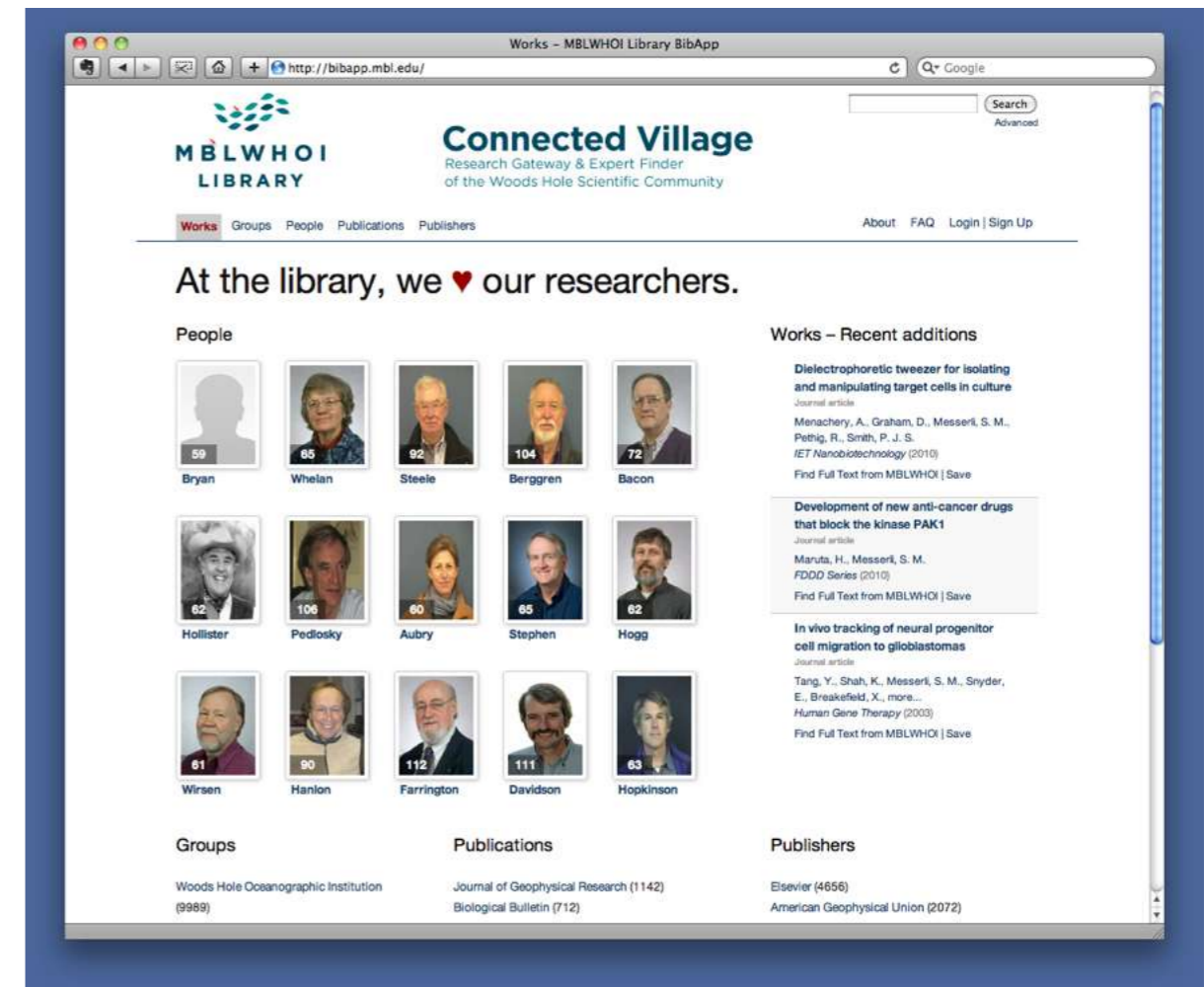
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### Publishers

Elsevier (4796)  
American Geophysical Union (2129)  
Springer Verlag (1104)

# The Basics

- Institutional bibliography - collect, refine, organize and present information about scholarly output
- Created by a collaboration between the University of Wisconsin-Madison and the University of Illinois at Urbana-Champaign
- Expert finder
- Compliment to WHOAS (IR)



# Others in this space

- OpenScholar (Harvard)
- VIVO
- Catalyst (Harvard)
- many more...

# Live installations

- University of Illinois at Urbana-Champaign —  
<http://connections.ideals.illinois.edu>
- The MBLWHOI Library —  
<http://bibapp.mbl.edu/>
- The University of Kansas Medical Center —  
<http://experts.kumc.edu/>

# The Technology

- Ruby on Rails
- Solr/Lucene search engine
- MySQL or PostgreSQL
- Our server: Virtual machine running Debian 5.0, 3.5GB RAM, 2 2.00Ghz Xeon 5130 cores assigned, 31 GB of disk



# Interoperable with many systems - allows for reuse of publications data.

- exports data in several citation formats (APA, Chicago, IEEE, MLA, more)
- Faceted Browsing
- OpenURL
- Google Books
- Sherpa/ROMEIO
- SWORD for IR deposit
- LDAP integration



# Connected Village

Research Gateway & Expert Finder  
of the Woods Hole Scientific Community

  
Advanced Search

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## Oceanic sources, sinks, and transport of atmospheric CO<sub>2</sub>

Journal article

Local Library Link: Find Full Text from MBLWHOI

<b>Author(s):</b>	Gruber, Nicolas, Gloor, Manuel, Fletcher, Sara E, Mikaloff, Doney, Scott C., Dutkiewicz, Stephanie, Follows, Michael J., Gerber, Markus, Jacobson, Andrew R., Joos, Fortunat, Lindsay, Keith, Menemenlis, Dimitris, Mouchet, Anne, Mueller, Simon A., Sarmiento, Jorge L., Takahashi, Taro
<b>Article Title:</b>	Oceanic sources, sinks, and transport of atmospheric CO <sub>2</sub>
<b>Abstract:</b>	We synthesize estimates of the contemporary net air-sea CO <sub>2</sub> flux on the basis of an inversion of interior ocean carbon observations using a suite of 10 ocean general circulation models (Mikaloff Fletcher et al., 2006, 2007) and compare them to estimates based on a new climatology of the air-sea difference of the partial pressure of CO <sub>2</sub> (pCO <sub>2</sub> ) (Takahashi et al., 2006). These two independent flux estimates reveal a consistent description of the regional distribution of annual mean sources and sinks of atmospheric CO <sub>2</sub> for the decade of the 1990s and the early 2000s with differences at the regional level of generally less than 0.1 Pg C a <sup>-1</sup> . This distribution is characterized by outgassing in the tropics, uptake in midlatitudes, and comparatively small fluxes in the high latitudes. Both estimates point toward a small (similar to -0.3 Pg C a <sup>-1</sup> ) contemporary CO <sub>2</sub> sink in the Southern Ocean (south of 44 degrees S), a result of the near cancellation

### Woods Hole Authors



109  
Doney

### Related Woods Hole Work

Inverse Estimates Of The Oceanic Sources And Sinks Of Natural Co<sub>2</sub> And The Implied Oceanic Carbon Transport

Global Biogeochemical Cycles | 2007

Mechanisms Governing Interannual Variability In Upper Ocean Inorganic Carbon System And Air-Sea Co<sub>2</sub> Fluxes: Physical





# Connected Village

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## Upload Content File

Attaching to Journal article:

Gruber, N., Gloor, M., Fletcher, S. E. M., Doney, S. C., Dutkiewicz, S., Follows, M. J., Gerber, M., Jacobson, A. R., Joos, F., Lindsay, K., Menemenlis, D., Mouchet, A., Mueller, S. A., Sarmiento, J. L., & Takahashi, T. (2009). Oceanic sources, sinks, and transport of atmospheric CO<sub>2</sub>. *Global Biogeochemical Cycles*. American Geophysical Union.

### Content Files

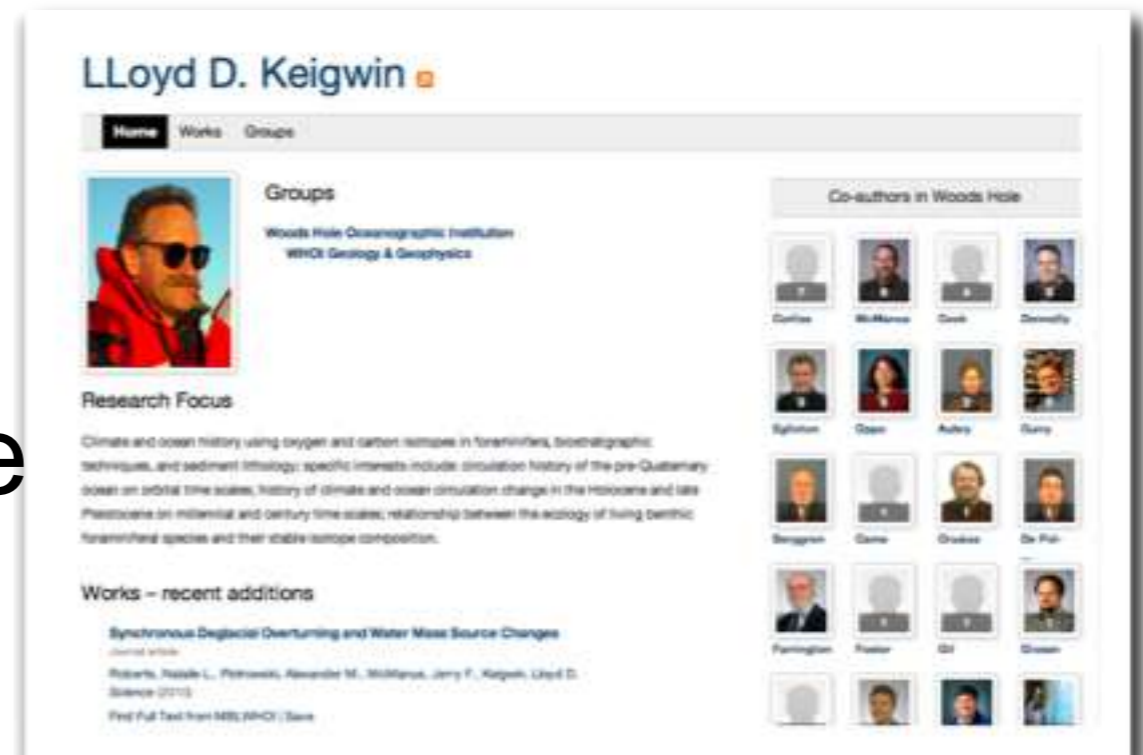
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# For researchers

- promote & increase impact of research
- find collaborators, are others on campus working in this area?
- make research more accessible
- easily create a publication list for grants, annual reports, etc.



# For librarians

- better understand research happening in local departments
- what journals are our researchers publishing in?
- facilitate conversations about author rights with researchers
- ease the population of the institutional repository

Archival Analysis: LLOYD D. Keigwin

RoMEO Color	Archiving Policy	Percentage	Works
Unknown	Could not determine from data	18%	19
Green	Can archive pre-print and post-print	60%	63
White	Archiving not formally supported	9%	9
Yellow	Can archive pre-print (a pre-refereeing)	13%	14
		Total	105

Publications

RoMEO Color	Pub Copy Allowed	Name	Publisher	Works
Green	yes	Palaeogeography	American Geophysical Union	21
Yellow		Nature	Nature Publishing Group	12
Green		Science	American Association for the Advancement of Science	8



# For administrators

- achieve a clearer picture of collaboration and scholarly publishing trends on campus
- who is publishing in high profile journals
- what collaborations are happening, within and among the institutions

## People



16

**Mensinger**



52

**Clay**



20

**Baker**



24

**Mitchison**



2

**Eugenin**



52

**Augustine**



17

**Felzer**



3

**Gerlich**



9

**Albertini**



6

**Gladyshev**



5

**Mooney**



5

**Bass**



7

**Burgess**



11

**Danuser**



9

**Edds-Walton**

## Description

Each summer, scores of distinguished biologists from around the world come to the MBL as visiting researchers to collaborate and conduct research. They use marine and other organisms as model systems for their research.

In addition to the MBL's year-round research centers, the Whitman Center represents this vibrant visiting research community. Many of the MBL's visiting researchers have been coming to the MBL each year for 20 years or more. Long-time visiting researchers can be designated as Whitman Investigators to acknowledge their role as vital members of the MBL research community.

<http://www.mbl.edu/research/summer/investigators.html>

## Publications

Biological Bulletin (63)  
 Biophysical Journal (57)  
 Proceedings of the National Academy of Sciences of the United States of America (38)  
 Journal of Physiology (24)  
 Journal of Cell Biology (22)  
 Journal of neurophysiology (21)  
 Journal of Biological Chemistry (20)  
 Journal of General Physiology (20)

## Publishers

Elsevier (147)  
 Marine Biological Laboratory (63)  
 Rockefeller University Press (42)  
 National Academy of Sciences (38)  
 Blackwell Publishing (33)  
 Springer Verlag (32)  
 American Physiological Society (29)  
 Nature Publishing Group (26)  
 Physiological Society, The (24)

## Belongs to

- Marine Biological Laboratory

## Types of Work



## Popular research topics

**Biochemistry & Molecular Biology** **Biology** Biophysics **CELL BIOLOGY** Marine & Freshwater Biology Multidisciplinary Sciences  
 NEURONS **Neurosciences**  
**PHYSIOLOGY** Zoology

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## Recent Works

### Influence of Cell Geometry on Division-Plane Positioning

Journal article

Minc, Nicolas, Burgess, David, Chang, Fred  
*Cell* (2011)

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### Underwater linear polarization: physical limitations to biological functions

Journal article

Shashar, Nadav, Johnsen, Sönke, Lerner, Amit, Sabbah, Shai, Chiao, Chuan-Chin, more...  
*Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* (2011)

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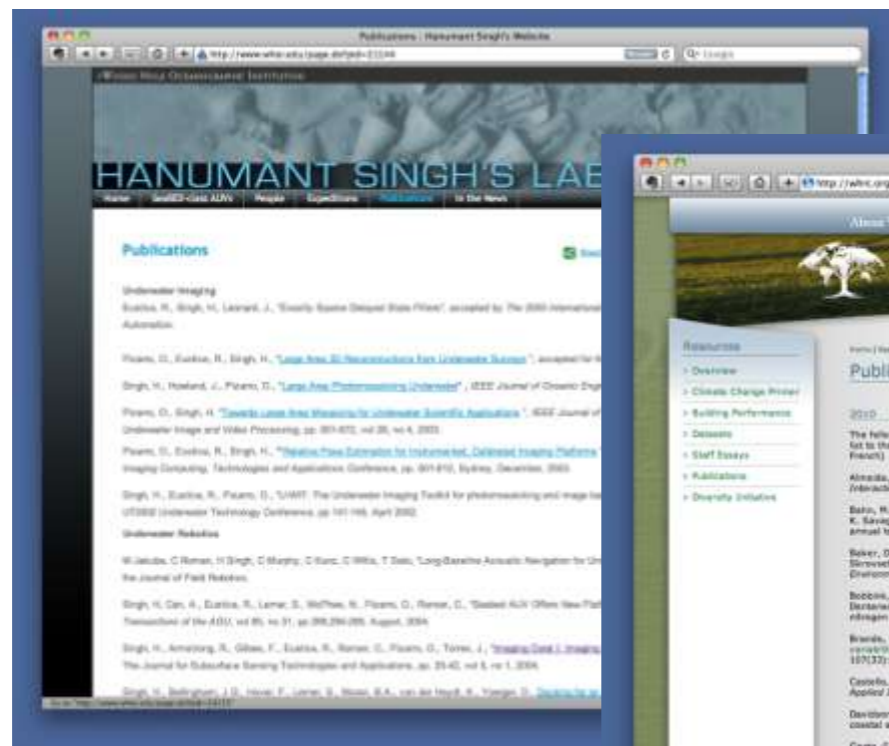
### Infrared photostimulation of the crista ampullaris

Journal article

Rajguru, Suhud M., Richter, Claus-Peter, Matic, Agnella I., Holstein, Gay R., Highstein, Stephen M., more...  
*Journal of Physiology* (2011)

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# Duplication of effort and inconsistencies





# Data reuse

- RSS, every researcher & group page
- Web services API for delivering data as XML, YML, JSON, and RDF

# Data reuse is catching on


Terry Joyce : Profile : Woods Hole Oceanographic Institution  
http://www.whoi.edu/profile/tjoyce/works/

WOODS HOLE OCEANOGRAPHIC INSTITUTION

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**Profile**

 **Terry Joyce**  
Senior Scientist  
Physical Oceanography  
Director, Ocean & Climate Change Institute

Office Phone: +1 508 289 2530  
Fax: +1 508 457 2181  
[tjoyce@whoi.edu](mailto:tjoyce@whoi.edu)  
[Personal Site](#)

*WHOI Mailing Address:*  
Woods Hole Oceanographic Institution  
266 Woods Hole Rd.  
MS# 21  
Woods Hole, Ma. 02543

**Education**  
B.Sc. Rose-Hulman Institute of Technology, 1968, Physics  
Sc.D. MIT/WHOI Joint Program, 1972, Physical Oceanography

**Research Interests**  
Oceanic fronts and mixing phenomena; dynamics of warm core Gulf Stream rings; shipboard acoustic profiling of ocean currents; hydrographic sampling; oceanic subduction; physics of hydrothermally forced circulation; decadal variability.

**Recent Publications**

- [Subduction on the Northern and Southern Flanks of the Gulf Stream](#), Journal of Physical Oceanography (2010)
- [Using Argo data to investigate the Meridional Overturning Circulation in the North Atlantic](#), Deep-Sea Research Part I-Oceanographic Research Papers (2010)
- [Wintertime observations of Subtropical Mode Water formation within the Gulf Stream](#), Geophysical Research Letters (2009)

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harvested from BibApp

# Data reuse is catching on

The screenshot shows the WHOI website's 'AOPe Research Publications' page. The browser address bar displays 'http://www.whoi.edu/page/preview.do?pid=48355'. The page features a navigation menu with 'Research' selected. On the left, a sidebar lists various departments, with 'Applied Ocean Physics & Engineering' highlighted. Under 'Research', 'Research Publications' is selected, indicated by a red arrow. The main content area, titled 'AOPe Research Publications', lists several recent publications from 2010, including articles in ICES Journal of Marine Science, Annual Review of Marine Science, IEEE Journal of Oceanic Engineering, and Deep-Sea Research Part I. At the bottom, there is a copyright notice for 2007, contact information, and social media links.



# Our Questions

- What if a researcher retires, moves on, passes away, etc.?
- Which materials belong in our IR?
- Buy in from administration, departments and individual researchers

# For more information

- John Furfey [jfurfey@mbi.edu](mailto:jfurfey@mbi.edu)
- library@mbi.edu

<http://bibapp.mbl.edu/>





# Features

Popular research topics

Cenozoic EOCENE  
Geosciences,  
Multidisciplinary Paleocene  
Paleocene-Eocene boundary  
Paleogene Paleontology  
Tertiary biostratigraphy  
stratigraphic boundary

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## William Berggren - Timeline

2003

Popular Research Topics by Year

BASIN BENTHIC EXTINCTION EVENT BOUNDARY Bocas del Toro COSTA-  
RICA Central America Deep-sea EAST END EVENTS EXCURSION  
Egypt Geosciences, Multidisciplinary ISTHMUS LIMON-BASIN MA  
MARKERS MIDDLE-EAST Multidisciplinary Sciences Neogene PALEOCENE  
THERMAL MAXIMUM PALEOENVIRONMENTS Paleogene  
Paleontology STRATIGRAPHY

# -Features cont'd

## keyword clouds & timelines

William A. Berggren - MBLWHOI Library BibApp

http://bibapp.mbl.edu/people/500

### William A. Berggren

Home Works Groups

**Groups**

Woods Hole Oceanographic Institution  
WHOI Geology & Geophysics

**Works - recent additions**

**The Neogene and Quaternary: chronostratigraphic compromise or non-overlapping magisteria?**  
Journal article  
Aubry, Marie-Pierre, Berggren, William A., van, Couvering John, McGowan, Brian, Hilgen, Frits, more...  
Stratigraphy (2009)  
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**Pharaonic necrostratigraphy: a review of geological and archaeological studies in the Theban Necropolis, Luxor, West Bank, Egypt**  
Journal article  
Aubry, Marie-Pierre, Berggren, William A., Dupuis, Christian, Ghaly, Hossain, Ward, David, more...  
Terra Nova (2009)  
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**What, if Anything, is Quaternary?**  
Journal article  
Van Couvering, John A., Aubry, Marie-Pierre, Berggren, William A., Gradstein, Felix M., Hilgen, Frits J., more...  
Episodes (2009)  
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**Co-authors in Woods Hole**

Aubry 45  
Haq 5  
Johnson 2  
Corliss 1  
Hollister 1  
Keigwin 1

**Types of Work**

Journal Articles  
Book Sections

**Popular research topics**

Cenozoic EOCENE  
Geosciences,  
Multidisciplinary Paleocene  
Paleocene-Eocene boundary  
Paleogene Paleontology  
Tertiary biostratigraphy  
stratigraphic boundary

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Publications