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1.0 OPENING

1.1 Opening Remarks and Administrative Arrangements

Naqvi, Burkill, Urban

1.1.1 Memorials for Scientists Involved With SCOR

Burkill

Katrina Edwards

Katrina Edwards was a Full Member of SCOR/InterRidge WG 135 on Hydrothermal Energy Transfer and its Impact on the Ocean Carbon Cycles

Katrina J. Edwards, March 15, 1968 - October 26, 2014 (from <https://astrobiology.nasa.gov/articles/2014/10/29/in-memoriam-katrina-edwards/>)

The astrobiology community deeply mourns the passing of Katrina Edwards, a geomicrobiologist and very bright light in many of our lives. Please see the blog set up by her family for more information on her life and work, and to contribute remembrances of Katrina.

Katrina Jane Edwards passed away peacefully on October 26, 2014, after a long illness. She was born March 15, 1968, in Columbus, Ohio, the third of five children raised by Timothy and Sandra Edwards and big sister Laura Edwards. Katrina completed her secondary education at Columbus Alternative High School. She spent several years assisting her father and siblings in general airport operations at the Delaware Municipal Airport, eventually becoming chief flight instructor. Katrina then received her undergraduate degree from The Ohio State University and went on to earn her Ph.D. from the University of Wisconsin-Madison.

Katrina was bright, vibrant and at the helm of her chosen field. A gifted scientist, she was professor of biological sciences, earth sciences and environmental studies at the University of Southern California. Prior to that, she was associate scientist in marine chemistry and geochemistry at Woods Hole Oceanographic Institution.

A pioneer in oceanographic research, Katrina's discoveries centered on life forms beneath the ocean floor, also called "intraterrestrial life." As an innovator in geomicrobiology, Katrina worked with other scientists on integrated ocean drilling, including spearheading and leading an international deep biosphere project in the mid-Atlantic. She also headed the U.S. National Science Foundation-supported Fe-Oxidizing Microbial Observatory Project on Loihi Seamount. In 2012, she was recognized with the A.G. Huntsman Award for Excellence in Marine Science and was the third woman to receive this distinction in the foundation's 32-year history. Perhaps her most significant professional accomplishment was "raising" the next generation of geomicrobiologists through teaching and mentoring a multitude of students and post-doctoral professionals on expeditions and in her classes and research labs.

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Katrina was preceded in death by her sister Laura Ruth Edwards, who died in 2005. She will be missed mightily by her three children (Ania, Katya, and Nakita Webb), siblings (Ben, Melanie, and Nina Edwards), cousins, many nieces and nephews, and parents (Timothy and Sandra Edwards). She is survived by them—along with the many friends and colleagues who loved her spontaneity and sense of humor and respected her undeniable genius. Her strength and spirit live on especially in her children—as well as all who came to know her during her 46 years.

Kon-Kee Liu

Dr. Kon-Kee Liu, an internationally renowned geochemist in ocean research, passed away August 12, 2015 in Chang Gung Memorial Hospital in Linkou, Taiwan. He was 65. The cause was liver and kidney failure.

Dr. Liu was born on May 2, 1950 in Taipei, Taiwan. From an early age, he was drawn to science, and in high school, decided on chemistry as his would-be major in college. Known to friends and colleagues as KK, Dr. Liu received his BS at National Tsing Hua University in Taiwan and Ph.D. in geochemistry at University of California, Los Angeles. He was a post-doctorate research fellow at the California Institute of Technology. In his 40-year career, Dr. Liu mentored countless students, organized large field campaigns, and dedicated his scholarly endeavors to the global environmental change research.

Most recently he served as co-Chair of the IMBER-LOICZ Continental Margin Working Group. He was a professor at National Central University's Graduate Institute of Hydrological and Oceanic Sciences in Taiwan. His many publications, in the words of IMBER (Integrated Marine and Biogeochemistry and Ecosystem Research), "provide a lasting legacy of his widespread influence."

Dr. Liu was also a devoted Christian and committed to living a faithful and productive Christian life. His faith never wavered in the face of adversity. In 1986, when his first wife Lily received the devastating diagnosis of terminal cancer, KK and Lily remained steadfast in their love for God. Over the decades, KK and his wife Margaret were an integral team in their local church, organizing fellowship groups and prayer meetings. Their shared faith sustained them in times good and difficult, especially during KK's final weeks in the hospital.

In addition to his wife Margaret, Dr. Liu is survived by his children, Jerry and his wife Niann Torng Chen, Joseph, Joshua, his parents, and his brother Phil.

It is the family's wish that in this time of sorrow, KK's friends and colleagues can draw strength from Psalm 90:12: "Teach us to realize the brevity of life, so that we may grow in wisdom". The Bible described KK's present state: Instead, they were longing for a better country—a heavenly one. Therefore God is not ashamed to be called their God, for He has prepared a city for them. (Hebrews 11:16). In faith, we look forward reuniting with KK in the Heavenly City. A memorial service is planned for 10:00 am on Saturday, August 29 at the Hoping Presbyterian Church in Taipei, Taiwan.

Luis Cappuro

Luis Cappuro participated in the first SCOR meeting in 1957, and was SCOR President in 1964-1968. He also participated in SCOR's 50th anniversary meeting in 2008.

Roland von Glasow

(from https://www.uea.ac.uk/environmental-sciences/news-and-events/-/asset_publisher/c54bKX3qxxfy/blog/professor-roland-von-glasow)

The UEA community is deeply saddened by the unexpected death of their colleague and friend, Professor Roland von Glasow.

Roland was a pillar in the School of Environmental Sciences. He recently conceived the Centre for Ocean and Atmospheric Sciences (COAS) at UEA, unifying physical and biogeochemical sciences under one umbrella. His leadership in the School as director of COAS and joint sector head was precious and well appreciated by us all.

Roland's research ambitions were exciting and always original. In his recent work, Roland pioneered the design and building of a sea ice chamber in the School as part of his prestigious European Research Council grant for the purpose of conducting controlled experimentation on halogen gas flux across the sea ice boundary. This unique facility shows just how much he was able to think beyond current possibilities, and actually invent the way to conduct new research. Roland's research interests in atmospheric chemistry focused on reactive halogen chemistry in the troposphere, at the air-sea boundary and also in gas emissions from volcanoes.

Roland joined UEA in 2007 having studied and worked at the University of Mainz and Max-Planck-Institute in Mainz, Germany, the Scripps Institution of Oceanography, San Diego, and at the University of Heidelberg, Germany. He was a member of the first international SOLAS summer school (2003) jointly led by colleagues at UEA, which initiated many students to the joys of interdisciplinary research. He quickly went on and led international projects himself, including the Halogens in the Troposphere task force of SOLAS/IGAC, and the fast track initiative on air-sea interactions in megacities and the coastal zone of IGBP. He was a member of numerous scientific committees, generously giving his time and sharing his enthusiasm for research.

Roland was also an avid hiker, climber and triathlete.

Professor Kevin Hiscock, Head of the School of Environmental Sciences, said: "We were deeply saddened to learn of Roland's unexpected death. Roland was a very supportive colleague whose warm personality made him a popular figure in the School and beyond. Roland leaves a wife, Wendy, and two young daughters to whom we extend our deepest sympathy."

We will be working to support the continuation of his work, and help students and colleagues pursue some of his unique ideas.

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1.2 Approval of the Agenda (see Tab 0)

Burkill

The agenda can be rearranged at the meeting to accommodate the schedules of presenters and to add items to it.

1.3 Report of the SCOR President

Burkill

The SCOR President will present a report at the meeting that describes his activities on behalf of SCOR since the 2014 SCOR Annual Meeting in Bremen, Germany.

1.4 Report of SCOR Executive Director

Urban

This has been another busy year for the SCOR Secretariat. SCOR-supported groups continue their good work.

Finances—SCOR’s finances remain healthy, although some countries have had trouble paying their dues this year and last. Income from dues is important for funding the central administration of SCOR, namely the costs of the Secretariat and the annual SCOR meetings. Dues also fund some costs of working groups and other SCOR activities that are not funded from grants. SCOR depends on grant funding for large-scale research projects, ocean carbon activities, and some working groups.

National Members—The number of countries involved in SCOR has remained stable this year. There was some rotation of Nominated Members (see Tab 8).

Publications and Outreach—The SCOR Web site is the major vehicle for providing up-to-date information about SCOR to the international ocean science community and I make changes to the site several times each week, as I receive new information. The site is checked for “dead links” monthly. SCOR activities yielded many publications in the primary literature and other venues this year, as noted in Tab 8. Because SCOR’s reputation is significantly affected by the quality of documents resulting from SCOR activities, I spend a significant amount of my time writing, reviewing, and/or editing publications.

I have reserved a booth for SCOR at the Ocean Sciences meeting in New Orleans in February 2016. As at the 2014 Ocean Sciences meeting, the booth will provide an opportunity for SCOR-sponsored projects to gain visibility. SCOR will pay to have five posters formatted by a professional graphic artist and printed as a roll-up banner. One will be for SCOR and the four others for SCOR projects. The booth will provide an opportunity for these projects to distribute information and to meet with people who drop by.

The SCOR Twitter account has 74 followers (as of 27 Oct. 2015) and I continue to Tweet when there are news items that I think would interest the broader community. There is almost no overlap between SCOR’s Twitter followers and people on the SCOR email list.

Meetings—Between the 2014 and 2015 SCOR annual meetings, 11 SCOR working groups met

(WGs 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147). The Scientific Steering Committees of GEOHAB, IMBER, SOLAS, and SOOS also met.

Outreach to Scientists from Developing Nations and Capacity-Building Activities—SCOR continues to invest funding and effort in expanding our capacity-building activities. In addition to the continuation of the travel grant program, SCOR appoints up to three SCOR Visiting Scholars each year. The second of four annual Research Camps was held at the University of Namibia (UNAM) campus in Henties Bay this year. This concept grew out of Kurt Hanselmann’s two visits to UNAM as a SCOR Visiting Scholar and a subsequent grant from the Agouron Institute to SCOR for this activity.

I met with scientists at the Ocean University of Sri Lanka, the Sri Lankan oceanography agency (NARA), and the U.S.-Sri Lanka Fulbright Commission in March 2015 to present SCOR capacity building opportunities and to discuss the participation of institutions in Sri Lanka in the Second International Indian Ocean Expedition (IIOE-2).

Service to International Ocean Research Projects—SCOR helps SCOR-sponsored research projects in many different ways, including providing funds from the U.S. National Science Foundation, the U.S. National Aeronautics and Space Administration, and other sources, providing travel support for developing country scientists and scientists from countries with economies in transition to special events of the projects, providing IPO-type support until an IPO can be funded, providing access to the Conference Manager software for management of open science meetings, and leasing the GoToMeeting audio conferencing system for the projects.

Support of Project Offices—SCOR currently provides partial support for three project offices, as subawards to one of SCOR’s grants from NSF:

- **International Ocean Carbon Coordination Project (IOCCP)**—This office is located in Sopot, Poland, at the Institute of Oceanology of the Polish Academy of Sciences. SCOR pays the salary and benefits for the project director, Dr. Maciej Telszewski. IOC helps support the cost of the office and provides activity funding for IOCCP, and the host institution provides in-kind support.
- **GEOTRACES Data Assembly Centre**—This office is located at the British Oceanographic Data Centre. SCOR pays for some salary support and other expenses related to the office, for the GEOTRACES Data Manager. The office receives occasional support from other countries whose scientists are involved in GEOTRACES.
- **GEOTRACES International Project Office**—This office is located in Toulouse, France at the Laboratoire d’Etudes en Géophysique et Océanographie Spatiales, SCOR support pays for about half of the office cost, including some salary support for the GEOTRACES Executive Officer, Ms. Elena Masferrer-Dodas. SCOR funds are supplemented by funds from other countries whose scientists are involved in GEOTRACES.

Partnerships With Other Organizations—Maintaining existing partnerships and developing new ones depends on SCOR having the ability to commit funding to joint activities and to send representatives to partners’ meetings. We have strong partnerships with IGBP, IOC, PICES,

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POGO, and SCAR. We are developing a working relationship with the Future Earth initiative, particularly in relation to the SOLAS and IMBER projects. This year, Peter Burkill and I represented SCOR at the IOC General Assembly in June.

Staffing—Currently, I am working full-time for SCOR and Elizabeth Gross is working about one-quarter time as a contractor to handle many financial duties. I handle the regular duties related to the SCOR Secretariat each year, but this year I also did the following:

- Handled the report production for two project science plans, for the International Quiet Ocean Experiment (IQOE) and the Second International Indian Ocean Expedition (IIOE-2). This involves all the tasks that would normally be done by a publisher, including arranging editing and formatting, finding high-resolution graphics and arranging permissions to re-use the graphics, proof-reading, and distribution of the finished product.
- Writing and submitting a three-year continuation of the SCOR science proposal to the U.S. National Science Foundation. This proposal was successful, providing continued funding for GEOTRACES, GlobalHAB, IMBER, IOCCP, SOLAS, SCOR working groups and other activities through 31 August 2018.
- I have provided staffing support for the International Symposium Planning Committee for the International Symposium on the Indian Ocean in Goa, India on 30 Nov.-4 Dec.
- I co-authored a publication on “Determining priority variables ("ecosystem Essential Ocean Variables" - eEOVs) for observing dynamics and change in Southern Ocean Ecosystems”, submitted to the *Journal of Marine Systems*, in review.
- I wrote an invited article for the *CLIVAR Exchanges* newsletter on the history of the International Indian Ocean Expedition.

I continue to manage all SCOR Secretariat activities and oversee the finances of SCOR activities, pursue new funding for SCOR activities, represent SCOR at various meetings, help edit various publications, and work on the SCOR Web site and Newsletter.

1.5 Appointment of an *ad hoc* Finance Committee

Burkill

The Executive Committee has appointed the 2015 Ad Hoc SCOR Finance Committee before the meeting, so the committee members can receive and review SCOR financial information in advance. Participation on the Finance Committee is limited to Nominated Members who are attending the meeting, but who are not members of the SCOR Executive Committee. This ensures that a group independent from the Executive Committee and SCOR Secretariat staff can make recommendations to the Executive Committee about SCOR finances. The members of this year's Finance Committee are Annalisa Griffa (Italy), Karen Heywood (UK), and Toshio Yamagata (Japan).

1.6 2016 Elections for SCOR Officers

Fennel

The election process for new SCOR officers will begin at the SCOR meeting in Goa.