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## 1.0 OPENING

### 1.1 Opening Remarks and Administrative Arrangements *Thompson, Sicre, Urban*

#### 1.1.1 Memorials for Scientists Involved With SCOR *Sicre*

John Bullister

**John Bullister was an Associate Member of SCOR WG on Dissolved N<sub>2</sub>O and CH<sub>4</sub> measurements: Working towards a global network of ocean time series measurements of N<sub>2</sub>O and CH<sub>4</sub>, for which he was instrumental in producing the gas standards used by the group.**

Extracted from <http://www.legacy.com/obituaries/PostGazette/obituary.aspx?n=JOHN-LOGAN-BULLISTER-JACK&pid=189377300>

Age 66, on June 13, 2018, of Lincoln/Lemington and Regent Square Pittsburgh and Seattle WA. He received his BS Degree from the University of Pittsburgh, MS Degree in Chemical Oceanography at Texas A&M and a PhD in Oceanography from Scripps Institute at the University of California in San Diego. Upon graduation from Pitt John worked in Phoenix then joined the Peace Corp and taught Biology and water filtration in Antigua. After Scripps Institute he was a Post-Doctorate Oceanographer for Woods Hole Oceanographic Institution in Cape Cod and was working as a scientist /oceanographer for NOAA - National Oceanographic and Atmospheric Administration-Pacific Marine Environmental Laboratory in Seattle, WA and adjunct professor at the [University of Washington](#) Oceanography Department. John and ship CCS Hudson participated in the 1982 Ocean Ranger oil rig disaster recovery effort, bring dozens of those killed back to the shores of Newfoundland where their loved ones awaited. John was the author of a number of published research papers including a cover photograph and cover story for Science magazine. He traveled to every continent (including several times to Antarctica!) on the globe, making many friends and always kept his wonderful sense of humor, generosity and kindness-a wonderful role model! His final posting words were "Don't stress, be nice and go for it!"

Fred Grassle

**J. Fredrick Grassle was a Full Member of SCOR WG 76 on Ecology of the Deep Sea Floor and an ex-officio member of the SCOR Executive Committee from 1994 to 2002, as President of the International Association for Biological Oceanography (IABO).**

From: <https://matherhodge.com/tribute/details/1324/John-Grassle/obituary.html>

John Frederick Matthews Grassle of Princeton, NJ and formerly of Woods Hole, MA died in his sleep on Friday, July 6, 2018 at Regency Jewish Heritage Nursing Center in Franklin Township, NJ. He was 78.

Fred, as he was known to everyone, was born on July 14, 1939 in Cleveland, OH. He was raised in Bay Village, OH, graduating from Bay Village High School in 1957. He received a degree in Zoology from Yale University in 1961. During his studies, he spent a summer as an intern at the

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Woods Hole Oceanographic Institution (WHOI), setting the course for the rest of his professional career as an oceanographer. Fred received his PhD from Duke University in 1967 and then completed a Fulbright Fellowship at the University of Queensland in Australia studying succession on the reef crest at Heron Island on the Great Barrier Reef. Following his fellowship, Fred joined WHOI as a full-time Assistant Scientist in 1969. During his tenure at WHOI Fred conducted research on deep-sea biodiversity, initially with Howard Sanders. His earliest work was focused on determining why the deep-sea benthic macrofauna were highly diverse. His theory was that the ocean floor was much like a rain forest where a patchwork of different micro-environments allows animal species to evolve independently. This interest led to Fred's early involvement in the first biological expedition to survey the hydrothermal vents discovered at the Galapagos Rift in 1977. Fred conducted pioneering research contributing to the world's understanding of the unique ecosystems near these volcanic vents at the sea floor, fueled by chemical energy from the Earth's interior rather than sunlight. The first of a series of expeditions over the course of Fred's career was documented in the National Geographic Society's documentary Dive to the Edge of Creation.

In 1989, Fred joined the faculty at Rutgers University's Cook College to establish the Institute of Marine and Coastal Sciences. He helped to raise funds for a new building to house the Institute whilst expanding the research and teaching faculty and conducting his own research. This included an analysis of ocean dumping that led to the end of sludge disposal in U.S. waters. Later Fred helped to establish one of the first ocean observing stations off the coast of New Jersey and was one of the founders of the Census of Marine Life and Ocean Biogeographic Information System. Fred retired in 2012 with 23 years of service to Rutgers University. Among other honors, Fred was awarded the Japan Prize, the Benjamin Franklin Medal, the Grand Prix des Sciences de la Mer Albert de Monaco, and the ASLO Lifetime Achievement Award. He has had six species and one genus of polychaetes, three species of mollusks, and three species of crustacea named after him.

## Temel Oguz

**Temel Oguz was a Full Member of SCOR WG 128 on Natural and Human-Induced Hypoxia and Consequences for Coastal Areas, a Nominated Member from the Turkish SCOR Committee, and was involved in several SCOR capacity-building activities.**

Temel Oguz (from <https://ims.metu.edu.tr/duyuru/memori-am-prof-temel-oguz/>)

As Middle East Technical University (METU) IMS community we are tremendously saddened by the early loss of Dr. Temel Oğuz, Professor Emeritus of Physical Oceanography at METU Institute of Marine Sciences, who has passed away on December 26, 2017. Our memory of him remains as someone who was full of life, deeply committed to science, and a dedicated friend and mentor. Born on 13 November 1952 in Aydın, Turkey, Prof. Oğuz received his bachelor's degree from METU department of Physics in 1975, his M.Sc. from the same department. He then moved to Reading (UK) for pursuing his Ph.D., which he earned in 1981 from Department of Meteorology, University of Reading (UK). After obtaining his Ph.D., Dr. Oguz joined the Institute of Marine

Sciences as an Assistant Professor in 1981. Prof Oğuz was a fixture at METU IMS for 30 years. He was promoted to Associate Professor in 1986 and full Professor in 1992 at the same institution. He spent a year (from June 1993 to July 1994) as a visiting scientist in MIT, Department of Earth, Atmospheric and Planetary Sciences, Cambridge MA (USA), and continued this collaboration by visiting MIT three months of each year during the following years. After retiring in 2010 from METU, he continued his research, staying affiliated with the METU IMS family as an Emeritus Professor and carried out research in conjunction with Balearic Islands Coastal Ocean Observing and Forecasting System, Spain.

Prof. Oğuz was the most dedicated and productive Turkish oceanographer of the past 30 years. His research produced fundamental papers on topics such as the circulation dynamics of the Black Sea and Black Sea Ecosystem Dynamics. He was one of the pioneers in physical oceanography and was at the frontier of ecosystem modelling, not only in Turkey but also at the international level. Prof Oğuz's research also included investigating the circulation dynamics in the Marmara Sea and the Bosphorus Strait, while his recent research focused more on analysing the effects of mesoscale variability on the ecosystem both in the Black and the Mediterranean Seas. He has published more than 100 papers which are cited over 3,000 times. After retirement Prof. Oğuz never stopped working and producing scientific results, in 2017 alone he published 6 papers (4 as the leading author).

Prof. Oğuz played a most active role in establishing Turkish-American-Russian cooperation in the Black Sea during 1990s. Directly quoting from Prof. Sergey Kononov, Director general of Marine Hydrophysical Institute Russian Academy of Sciences, *“Temel did help us a lot in our rough 1990's and he made possible for many people from our institute to remain in oceanography and to become good scientists”*.

One of the most distinctive qualifications of Prof. Oğuz was his enthusiasm for mentoring young scientists. He tremendously enjoyed discussing science with them, advising them on their career paths and introducing young skilled researchers to the international scientific community. Prof. Oğuz enjoyed organizing international summer schools in Turkey and invited many outstanding scientists as lecturers that agreed to join with excitement.

Prof. Oğuz was well known to his friends and colleagues for his great sense of humour. He was a very social person that enjoyed long dinners with friends, often being the centre of attention and telling hilarious stories about past field work and scientific adventures. While at METU IMS he loved enjoying many sunsets sitting on his balcony overlooking the Mediterranean while drafting manuscripts and responding to the infamous third reviewer.

Prof. Oğuz is survived by his wife, Dilek and their son Efe. He met his wife while he was a research Assistant in METU Physics department and they married in 1979. Prof. Oğuz was a devoted family man and during the last years he often chose to travel together with Dilek, even for scientific meetings. Prof. Oğuz was very proud of their son Efe, who was born in 1988 and who now works as a Turkish Airlines manager at the Johannesburg branch. Above anything he enjoyed watching soccer games with Efe and extending his mentoring skills, guiding him through life.

Temel Oğuz died on December 26, 2017 in İstanbul after complications from open heart surgery.

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## **1.2 Approval of the Agenda (see Tab 0)**

*Sicre*

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**

*Sicre*

The SCOR President will present a report at the meeting that describes her activities on behalf of SCOR since the 2017 SCOR Annual Meeting in Cape Town, South Africa.

## **1.4 Report of SCOR Executive Director**

*Urban*

The ongoing work through SCOR-supported projects and working groups has continued as usual this year, thanks to the many dedicated scientists and project staff. My main job have been to manage funds for SCOR and its activities, and to provide staff support for the SCOR Executive Committee, SCOR Committee on Capacity Building, the International Quiet Ocean Experiment, and GlobalHAB project.

**Finances**—Dues income is on track for this time of year. 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. NSF is currently considering a three-year renewal proposal from SCOR for funding of international large-scale research projects and infrastructural activities, working groups, and other activities. The renewal will be granted, but we are waiting to hear at what level.

**National Members**—The number of countries involved in SCOR has increased by two in the past year, with the addition of the Irish SCOR Committee in 2017 and the addition of the Namibian SCOR Committee in 2018. Spain was removed from membership at the end of 2017 for non-payment of dues for five years. The SCOR Executive Committee and Executive Director are continually seeking to add new national SCOR committees. 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. The re-designed SCOR Website should be ready to launch by the time of the SCOR meeting in Plymouth.

SCOR activities yielded several publications in the peer-reviewed literature and other venues this year, as noted in Tab 8. Because SCOR’s reputation is largely affected by the quality of documents resulting from SCOR activities, I spend a significant amount of my time writing, reviewing, and/or editing publications.

SCOR had a booth at the Ocean Sciences meeting in Portland in February 2018. The booth provided an opportunity for SCOR-sponsored projects to gain visibility and for SCOR projects to distribute information and to meet with people who dropped by the booth. Five SCOR working groups met in conjunction with the Ocean Sciences meeting, so I was able to help with logistics and/or attend meetings of these groups. I don't usually attend WG meetings, so this is a good opportunity for me to meet the members and provide a SCOR perspective, if needed. The booth was a gathering place for people involved in SCOR activities and interested in SCOR. It would be a good idea for SCOR to have a booth at every Ocean Sciences meeting.

The SCOR Twitter account has 414 followers (as of 18 July 2018), up from 268 followers in July 2017. I tweet 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. I generally post the same items on the SCOR Facebook page as items tweeted.

**Meetings**—In the 12 months between the 2017 and 2018 SCOR annual meetings, 11 SCOR working groups met (WGs 143, 145, 147, 148, 149, 150, 151, 152, 153, 154, 155). The Scientific Steering Committees of GEOTRACES, GlobalHAB, IIOE-2, IMBER, IOCCP, IQOE, 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. SCOR approved seven SCOR Visiting Scholars in 2018, up from five in 2017. The fifth annual Research Camp 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 subsequent grants from the Agouron Institute and Simons Foundation to SCOR for this activity. SCOR has helped convene two side events at the UN in the past 13 months aimed at Small Island Developing States.

**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, as well as activity funding. 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

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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 Université Toulouse III - Paul Sabatier, 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 Future Earth, IOC, PICES, POGO, and SCAR. This year, Marie-Alexandrine Sicre and I represented SCOR at the IOC Executive Council in June and Marie-Alexandrine represented SCOR at the 2018 annual SCAR meeting. I met with the U.S. SCOR Committee this year. Marie-Alexandrine Sicre, Venu Ittekkot, and I represented SCOR at the launch of the Namibian SCOR Committee in March 2018.

**Staffing**—Currently, I am working full-time for SCOR and Elizabeth Gross is working about one-third 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

- Served as the project coordinator for the International Quiet Ocean Experiment (IQOE), which included planning and management of the third meeting of the IQOE Science Committee in March 2018, a meeting of the IQOE WG on Acoustic Measurement of Ocean Biodiversity Hotspots in May 2018, and a Forum on Approaches for Studying Effects of Sound on Marine Organisms and Ecosystems, also in May 2018.
- Served as the one of the project coordinators, with Henrik Enevoldsen of IOC, for the GlobalHAB project, whose Scientific Steering Committee met in April 2017.
- Continued to work on implementing recommendations from the ICSU review of SCOR, including working with the SCOR Executive Committee on the new SCOR Vision, working with a Web developer on the new SCOR Website, and managing the process to select an early-career scientist for the SCOR Executive Committee.
- Produced three *SCOR Newsletters* and the 2017 *SCOR Proceedings*.
- Worked with the SCOR Committee on Capacity Building to manage approval of requests for travel support for developing country scientists to attend ocean science meetings, and the process to select new SCOR Visiting Scholars.

I am working on two other publications as time allows, one on the outcomes of the U.S. Program in Biology of the first International Indian Ocean Expedition and the other (with Sophie Seeyave of POGO) on the outcomes of the Visiting Scholar/Professor programs of SCOR and POGO.

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***Sicre*

The Executive Committee appointed the 2018 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 Isabelle Ansorge (South Africa), Annalisa Griffa (Italy), Paul Myers (Canada), and Toshio Yamagata (Japan).

**1.6 2018 Elections for SCOR Officers***Burkill*

The election process for 2018 SCOR officers began after the SCOR meeting in Cape Town. Peter Burkill will announce the results of the elections at the SCOR meeting in Plymouth.