

## Teaching Rewarded



John Turner

Two members of SOS staff were rewarded for their contribution to marine science teaching during the 2007 graduation ceremony: following their nomination by present students and staff, John Turner and Andy Yule received their Teaching Fellowships, awards that acknowledge outstanding teaching and student support. Teaching Fellows receive a citation, a certificate and a £1,000 award, and they join the University's Academy of Teaching Fellows which exists to share and disseminate best practice throughout the institution.



Andy Yule

## Facelift On Independence Day

It started as University College of North Wales with Departments; later it became University of Wales Bangor with Departments assigned to Schools; and from 1 September 2007 it will be Bangor University, after the Privy Council approved amendments to the Charter and Statutes of Bangor, thereby granting Bangor Degree Awarding Powers and independent university status with effect from 1 September 2007. The traditional faculty structure has already been dissolved with the regrouping of the Schools into six new 'Colleges'. This is the new face of the academic Bangor, aiming to foster an academic structure in which excellence in teaching/learning and research (including interdisciplinary research) can thrive.

Other research institutes and centres will also exist in the Colleges. Each college has a Head (as the principal budget holder and responsible for the overall strategy of the College and formally appointed by the University Council), at least two Deputies, responsible for teaching and for research and a College Manager, plus administrative staff with responsibility for such areas as finance, marketing etc. Strong links to central University administrative departments, will be in place.

The Ocean Sciences, the Biological Sciences and Environment & Natural Sciences (previously Agriculture and Forest Sciences Schools) have now formed the College of Natural Sciences (CNS), formally in existence on the 1st of August 2006 (cont. p4).

Each College consists of self-financing

## Honorary Fellowship Preceded 'Nobel'

As a physics student at Konstanz, Germany, Stefan Rahmstorf won a prestigious Volkswagen Scholarship to study anywhere in the world in the early 80s. He chose an MSc in Physical Oceanography under John Simpson. Stefan proved to be the outstanding student of his year in the MSc class and it was during his project work\* that he first became interested in modelling the ocean system and its relation to climate. This interest developed further in his PhD work in Wellington, New Zealand, and by the time of his return to Europe in 1990, he was already recognised as an expert on climate change. He worked at the Marine Institute in Kiel, Germany before becoming the

Professor of the Physics of the Oceans at the Potsdam Institute for Climate Impact Research in Germany. His work, a skilful mix of modelling and interpretation of data in novel ways, has radically influenced scientific thinking about the processes involved in controlling climate change. For the past 15 years he has studied the thermohaline ocean circulation and its effects on climate. In 1999 Rahmstorf was awarded the \$1 million Centennial Fellowship Award of the US-based James S. McDonnell foundation. Since 2000 Stefan has been a member of the Abrupt Climate Change Panel of the National Oceanic and Atmospheric Administration (NOAA - the organisation for which Jack Hall works in the film *The Day After Tomorrow*). He also heads the German-Norwegian project INTEGRATION which studies the possible impacts of future changes in the North Atlantic Current. Stefan's contribution as one of the world's most prominent ocean-climate modellers was recognised by his appointment into the IPCC\*\*.

The University, proud to be associated with one of the great climate scientists of our time, honoured Stefan by offering him an Honorary Fellowship for services to environmental science. Stefan received his award few months before the Nobel Peace Prize 2007 was awarded to the IPCC (and Al Gore) "for their efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change". That is not so bad for Stefan who was never given his MSc degree as he was not formally qualified to register for the course in Menai Bridge all those years ago.



Stefan Rahmstorf

\*The Intergovernmental Panel on Climate Change (IPCC) was established in 1988 by the World Meteorological Organization (WMO) and the United Nations Environment Programme (UNEP) to assess on a comprehensive, objective, open and transparent basis the scientific, technical and socio-economic information relevant for the understanding of climate change, its potential impacts and options for adaptation and mitigation. The IPCC does not carry out research nor does it monitor climate related data or other relevant parameters. The reports by the three Working Groups of the IPCC provide a comprehensive and up-to-date assessment of the current state of knowledge on climate change; Stefan is one of the authors of the recently published IPCC Fourth Assessment Report "Climate Change 2007", also referred to as AR4.

\*\*Do you still remember your Earth Science? Deep within the Cwm Idwal National Nature Reserve, Snowdonia lie some piles of sediment dumped by the glaciers that occupied the site during a particularly cold reversal, a blip, as the Earth emerged from the last Ice Age some 11,500 years ago. This icy blip was caused by the collapse of the deep circulation in the North Atlantic, demonstrating the intimate linkage between our climate and the heat transported by the oceanic circulation. Our knowledge about the thermohaline circulation, how it operates and how it responds to global warming, is through the work of Stefan Rahmstorf.

## Good Things Also Come In Three's

Sophie Clayton scooped a First Class Honours in Ocean Sciences, the Dr John Roberts Jones\* prize and one of three MIT (Massachusetts Institute of Technology) Presidential Fellowships awarded each year to first year PhD students. Sophie has now started her PhD, jointly between MIT and the

Woods Hole Oceanographic Institute, the largest independent oceanographic research institution in the United States. Her interests lie in the effects of the waves, tides and currents on the aquatic biology and in particular on phytoplankton. (cont. p7)

## Pays To Be Mature

Daniel Ward of Llangoed was presented with the Dr John Roberts Jones\* prize for Welsh students in July 2007. Daniel is 22 and a former pupil of Ysgol David Hughes. He gained a First Class Honours degree in Marine Biology, attaining the highest marks awarded since the degree's introduction 19 years ago. He began a Marine Biology course at Newcastle but transferred to Bangor's School of Ocean Sciences because of the facilities in Menai Bridge. Daniel has registered for an MSc in Marine Biology with the aim of joining the ranks of the academics. "Dan is an exceptionally gifted researcher. His dissertation showed a breadth of knowledge and maturity which is rarely seen," commented Chris Richardson, Dan's Tutor.

\*Worth £850 this is the University's most prestigious prize instituted by means of a bequest made to the University under the will of the late Dr John Roberts Jones of Hong Kong. It is awarded annually to six students whose academic performance is judged to have been particularly meritorious in that year across all the disciplines at Bangor University. Two of these awards go to Welsh students.

Colin Jago, Head of SOS (right) congratulating Daniel Ward.



Come and celebrate 21-22 June 2008 60 years of Marine Science

Public Lecture Alastair Fothergill, Series Producer *Planet Earth*, BBC  
Dinner Guest Speaker Professor Alan Thorpe, Chief Executive, NERC

.... and more! Limited places For a detailed programme & bookings, see page 10

## The Bridge

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WELCOME!!!

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**THE BRIDGE  
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CONTACT THE EDITOR

**Editorial Apologies for  
the delayed publication  
of the contributions  
appearing on this page.**

Once upon a time they were both at the Menai Bridge Laboratories for their marine biology qualifications. Thirty-eight years later they met again in Wellington, New Zealand for a major international marine science gathering on the theme of "Human Impacts in the Marine Environment". The 2005 Annual Conference of the New Zealand Marine Sciences Society, the Fourth International Conference on Marine Bioinvasions, and the NZ-US MARGINS Programme Meeting, all held concurrently, during 23-26th August 2005, at Victoria University, Wellington brought together Bob Hickman and Juan Carlos Castilla, who found time for a trip down memory lane despite the hectic conference schedule. Since being at Menai Bridge in the late 1960s, Bob has lived in New Zealand and has been involved in aquaculture research and development with oysters and Greenshell mussels, as well as New Zealand abalone and flatfish species. Juan Carlos returned to Chile where his teaching and research focused on rocky intertidal community structure and dynamics, and the role played by humans as resource users, for example the artisanal fishing communities and their impacts on conservation, management and benthic biodiversity.

Bob, the 2004-2006 President of the New Zealand Marine Sciences Society, convened the organizing committee that brought together the three interrelated programmes while Juan Carlos Castilla, Professor at the Catholic University of Chile's Center for Advanced Studies in Ecology and Biodiversity in Santiago, was one of three world-renowned keynote speakers at the conference, and his address provided some novel ideas on "non-indigenous invasive marine species".

Bob Hickman

## Small world



© Bob Hickman

Bob Hickman (left) and Juan Carlos Castilla (right)

## From Marine Science To Journalism



Sir Ghilliane Prance (left) and Teong-Jin Tan

**"P**ace unto all. I come as a friend not as an enemy. I come to seek my living, not to make war. May no harm come to me, to my wife, my children or my home. Because I intend no harm nor evil. I ask that I may come and go in peace." Have you ever visited a rainforest? Then you have perhaps heard the locals still repeating that traditional invocation to

the forest spirits. Now you can experience the magic of the rainforest in the book *Travels in the Malaysian Rainforest*, one of the two new books by Teong-Jin Tan, (BSc MarBiol/Phys Ocean 1983 and known as TJ to his contemporaries). TJ has gone from nature to finance (he was a financial journalist in the 80s) and back to nature. He has put his extensive travel experiences in this book, a copy of which was presented to Sir Ghilliane Prance, former director of Kew Gardens, UK, currently scientific director of the Eden Project, Cornwall and Visiting Professor at Reading University, during the Malaysian Science and Technology Congress in 2006 (For orders see p12).

© Teong-Jin Tan

## Fine Art, Marine Biology & Its Women

Early in August 2004, a number of members of the SOS staff gathered at an art gallery in Caernarfon to view a number of watercolours of North Wales' slate mines painted by Pip Knight-Jones, and also to obtain a signed copy of her book called "Aspects of Welsh Slate". Pip, as well as being an artist, is a distinguished marine biologist and the wife of our oldest member, Professor Wyn Knight-Jones. Pip and Wyn met and worked for many years in the University of Wales Swansea.

Looking around the gathering in Caernarfon, I was reminded of the impact of women on SOS right from the beginning. The key role of men in the founding and early development of the School of Ocean Sciences has often been recorded, notably of course in

"Across the Bridge". But the part played by ladies in those early days, usually as wives and partners, but also as secretaries, has been largely overlooked. It is not possible to name them, or describe the influence they wielded, but there is no doubt that it was considerable. Nowadays of course there are a number of ladies in senior positions on the teaching and research staff. It is only a matter of time before there is a female Head of School. Furthermore some women graduates have brought great credit to their alma mater. But do not forget that older band of ladies who "pushed prams together", sometimes simultaneously following a professional career, and kept their menfolk sane, -- more or less.

George Floodgate

## Love Boat Beware!

Alice Newton and John Icely met at the School of Ocean Sciences 23 years ago. Not only did they spend many happy hours fishing and lobstering on the Menai Strait, as well as toiling in the labs, but they got married in 1992 in Kenya. They left Menai Bridge and many friends behind when Alice took up a job at the University of Algarve in Portugal.

Alice and John visited Menai Bridge regularly, and in August 2005, with the help of Garry Reid and Gay Mitchelson-Jacob, they organized a small gathering on the new Prince Madog for a renewal of their vows during their visit in August. The blessing was conducted by the Master of the ship, Marcus Elliott. The party then continued at the Liverpool Arms pub where Alice and John had met all those years ago.

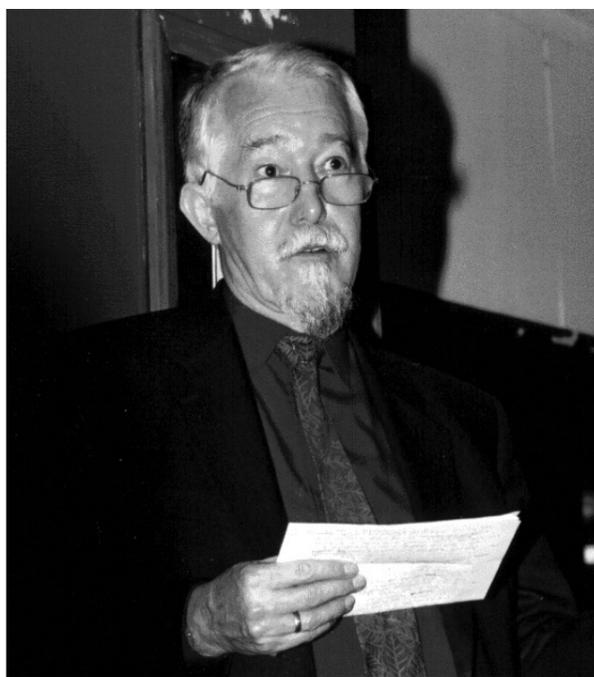
We look forward to the next party!



© Alice Newton

Alice and John (third and fourth from right) with guests on the Prince Madog

## A 'Crisp' Word From Our Chairman



Pat Boaden

Dear All,

Our editor Ioanna has e-mailed me just before I depart on a trip to New Zealand to visit family. "Would you care to say something for the new Bridge? You're even allowed to mention Dennis Crisp." .....quick panic whilst I work out if I can find the time..... Answer "Yes I will" – but I was intending to leave the latter until the 2008 Reunion. This, all going to plan, will be a splendid occasion to celebrate 60 years of Marine Science in Menai Bridge. It will seem a far cry from when I first darkened the doorsteps of Westbury Mount in 1958 but, as for all of us, it will renew marvellous memories of time spent in Menai Bridge.

I am sure one of my particular memories of the doorsteps themselves are shared by many of you – Eifion Jones casting off clouts long before May was out and sunning as much of his anatomy as was decent at the merest hint of good weather. Then, immediately in front of the steps, the day that Ph.D. student Brinley Williams told Dennis Crisp that the hydroid Tubularia had pink or blue gonophores according to its sex. Nothing would suit Dennis but (yelling "Simpson" at the top of his voice) to organize an immediate photographic session.

Alan Simpson (the chief technician who normally inhabited a Westbury Mount attic) and Brinley assembled a large dish, sea-water, specimens of ripe hydroids, and lab stool for it all to sit on in front of the steps while several of us gathered around at Dennis's request to admire the 'discovery'. The trouble was by the time all was organized to Dennis's satisfaction the sun had cast some Westbury Mount shadow across the whole set up. Cue for a few finger-clicks and curses ... "You stupid etc... move it all forwards!" There followed two repeat performances of setting up with the shadow overtaking things until a photo was achieved. By this time faces matched some of the gonophores and the language the others!

The last reunion was highly enjoyable in spite of the rather small attendance. It was interesting to meet several alumni again whom I had last seen when acting as their external examiner. I much look forward to seeing many more SOSA members at the 2008 Reunion. Be warned: I'm thinking of bringing my fiddle with some new tunes – how about the Fogg Hornpipe, Hoist the Jack and Done to a Crisp?

Best wishes to you all,

*Pat Boaden*

## SOSA Welcomes New Blood

*George Floodgate had decided: Tony Andrews was the person that SOSA needed. No one knows what George promised Tony: perhaps it was long drinking sessions and not much work - just like being a student really ... Whatever it was, Tony was won over. A warm welcome to the new member of the SOSA's Committee.*

“I graduated from University College London in 1970 and my first job was at the Marine Science Laboratories in Menai Bridge as a microbiologist in the NERC Oil Biodegradation Unit led by George. After six fascinating years I left and went to South Wales to work for the Tidal Waters Unit of what was then known as the Welsh National Water Development Authority - now known as Dwr Cymru (Welsh Water). I returned to North Wales in 1980 and as the organisation changed over the years I moved from the laboratory bench into administrative roles. These days I spend my time trying to ensure that Welsh Water's sewerage operations comply with the increasingly complex environmental legislation to which the water industry is subject.

On the personal side I am married with 4 children and live

in Bangor. Hobbies are, or rather would be if I could find the time to do more than dabble, gardening and hill walking. How did I come to join SOSA? Well I was in the local B&Q store buying some DIY supplies and I bumped into George.....”



Tony Andrews

Tony Andrews

## The SOSA Committee Reports:

The Committee met on three separate occasions in 2005, 2006 and 2007. Final plans for the celebratory weekend in 2008 were finalised and arrangements have been made for the merging of the database held by SOSA and that of the Alumni Office at Bangor. The newsletter remains in great need of sponsoring and several options were discussed. A core of alumni had previously shown an interest to help collectively; the Committee will try to re-establish contact. An earlier proposal for an electronic version has been re-discussed and a decision was taken to ask alumni via the newsletter as to who would 'opt out' for an electronic version. This will greatly diminish the main expense (postal costs). A hard copy will continue to be produced for those who choose snail mail.

## The School Reports:

**David Assinder** is now the School's Administrator and the Treasurer of SOSA.

**Dave Bowers** was awarded a Readership.

**Andy Beaumont** was awarded a D.Sc.

**Alan Davies** was made Professor of Physical Oceanography  
**Luis Gimenez, Jan Hiddink** and **Stuart Jenkins** have joined Menai Bridge as lecturers in Marine Biology.

**Colin Jago** has been appointed as the Head of the School and hence becomes the President of SOSA.

**Margaret Jones** has taken early retirement and has been replaced by **Marilyn Lorrison** in the Finance Office.

**Mike Kaiser** was awarded a personal chair.

**Hilary Kennedy** was awarded a Readership.

**John Latchford** is now the College of Natural Sciences Safety Officer.

**Ian Lucas** has taken early retirement, but he will continue to teach and supervise project students.

**Ian Nicolls** is now with the Mechanical Engineering Workshop.

**Garry Reid** is now the College of Natural Sciences Administrator.

**Gillian Roberts** has left the post of postgraduate secretary and is now planning to open her own cafe on Anglesey.

**Lorna Roberts** is working part time in the Finance Office.

**Paul Rolfe**, Subject Librarian, left in July due to restructuring within Information Services.

**James Scourse** and **David Thomas** were awarded personal chairs.

**Andy Yule** has taken early retirement.

### Kirby Laing Visiting Professors

Professor **Laurence Sandford**, University of Maryland  
Professor **Tom Osborn**, John Hopkins University, Maryland,  
Professor **Tony Underwood**, University of Sydney, Australia  
Professor **Jim O'Donnell**, Connecticut

## Exitus acta probat!

In the dim and distant past degree organisers probably used to heed this saying - "the result validates the deeds" or "the end justifies the means" - but since the 1990s the School has had to have the "deeds" validated\* first before any results are possible!

In 2006, the panel who carried out the latest Internal Quality Audit of the School of Ocean Sciences noted, informally, the importance of careers guidance to students and the benefits of having a strong alumni association to provide a network of contacts and concluded: "There exists a thoughtful, self-enhancing and pro-active approach to teaching and learning in SOS. Students are typically provided with high-quality courses and learning experiences." and "External examiners comment favourably on the academic environment that surrounds students across the School, and find that high standards are being maintained."

In July 2007 a brand new series of 4-year undergraduate programmes leading to Masters level qualifications (for Marine Biology, Oceanography and Marine Science) were given the go ahead after about 1000 pages of evidence were submitted for the Validation Panel who commended the School on the quality of its submission (An extensive list of the courses offered from October 2007 is on p.4).

The 'deeds' have therefore been validated and we await the future results with great anticipation!

*David Assinder*

\*Internal Quality Audits combined with module and degree course (programme) Validation and Revalidation are carried out by internal and external assessors monitoring academic quality and the teaching and assessment methods. A clear listing of the skills and knowledge obtained at completion of the module and programme (Learning Outcomes) is hence compiled closely tied to national Subject Benchmark Statements.

## SOSA

### The Founders (1996)

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## Graduations, Prizes & Awards

The year 2005 saw 110 students completing their undergraduate studies in marine science. 6 candidates successfully defended their PhD theses while 67 students completed the taught course component of their MSc degrees. Claire Ruth Biggs, BSc MarBiol/PhysOcean was nominated for the University's Dr John Robert Jones Prize.

In 2006 a total of 103 students graduated in marine science undergraduate degrees. Some 11 candidates for PhD successfully defended their theses, whilst 59 students completed the taught course component of their MSc Degrees.

In 2007 103 undergraduates completed their studies in marine science, 10 students were awarded their PhD and 62 students completed the taught course component of their MSc degree.

Departmental Prizes	Value	Recipient 2005	Recipient 2006	Recipient 2007
<b>Gavin Borthwick Memorial Prize*</b>	<b>£100</b>	Denise <b>Bunting</b>	Paul Ivor <b>Thomas</b>	Friederike <b>Jordan</b>
<b>Darbyshire Prize</b> (Best finalist in Oceanography)	<b>£50</b>	Claire Ruth <b>Biggs</b>	Jennifer Mary <b>Brown</b>	Sophie <b>Clayton</b>
<b>Darbyshire Prize Postgraduate</b> (Best MSc in Oceanography)	<b>£50</b>	Joanna G <b>Lester</b>	Nicola Jane <b>Coulter</b>	Eefke M <b>Van der Lee</b>
<b>Ray Delahunty Memorial Prize**</b>	<b>Book Tokens</b>	Sophie <b>Clayton</b>	Rosemary <b>Cripps</b>	Sophie B <b>Wilmes</b>
<b>Jeremy Jones Memorial Prize***</b>	<b>£150</b>	Benjamin <b>Green</b>	Christopher <b>Pham</b>	Andrew <b>Matkin</b>
<b>Fishmongers Company Grant****</b>	<b>£3,000</b>	Isobel <b>Poultney</b>	Isobel <b>Poultney</b>	David <b>Warburton</b>
<b>Gavin Winsborrow Prize*****</b>	<b>£50 Book Tokens</b>			Phillip <b>Gibbs</b>

\*Set up in the memory of Gavin Borthwick and awarded to the most promising first-year mature student in Marine Biology. A mature student in MarBiol 1994, Gavin died in April 1994 after a long illness. He was awarded an Aegrotat degree. A tree of remembrance has been planted by his family, friends and staff of the School at Treborth Botanical Gardens.

\*\*Set up in 2003 in memory of Ray Delahunty and awarded to the best 1st year student of Joint Honours MarBiol/PhysOcean. Ray died in 2003 while studying and was awarded posthumously a PhD.

\*\*\*Awarded to a student who has just completed the MSc in Shellfish Biology, Fisheries and Culture and set up in the memory of Jeremy Jones, a mature student in the School of Biological Sciences.

\*\*\*\*Awarded to a promising undergraduate student to enable them to follow the MSc Shellfish Biology, Fisheries and Culture.

\*\*\*\*\* Set up in 2007 in memory of Gavin Winsborrow and awarded to the most enthusiastic, helpful and selfless student in both the academic and social arenas over the three year course.

### THE NEW PROGRAMMES OF SOS STARTING IN OCTOBER 2007

Certificate, Diploma & B.Sc. Marine Biology  
Certificate, Diploma & B.Sc. Applied Marine Biology (3 year)  
Certificate, Diploma & B.Sc. Applied Marine Biology (4 year)  
Certificate, Diploma & B.Sc. Marine Biology/Oceanography  
Certificate, Diploma & B.Sc. Marine Vertebrate Zoology  
Certificate, Diploma & B.Sc. Marine Biology/Zoology  
Certificate, Diploma & B.Sc. Ocean Science  
Certificate, Diploma & B.Sc. Geological Oceanography  
Certificate, Diploma & B.Sc. Coastal Geography  
Certificate, Diploma & B.Sc. Marine Environmental Studies  
Certificate, Diploma & B.Sc. Oceanography and Computing  
Certificate, Diploma & B.Sc. Marine Chemistry

Master of Marine Science (M. Mar. Sci.)  
Master of Marine Biology (M. Mar. Biol.)  
Master of Oceanography (M. Ocean.)

M.Sc. Marine Environmental Protection  
M.Sc. Shellfish Biology, Fisheries and Culture  
M.Sc. Marine Biology  
M.Sc. Applied Marine Geoscience  
M.Sc. Applied Physical Oceanography

## ... And More Awards

In May 2005 two Welsh Livery Guild Travel Scholarships of £500 each were presented to the MSc Marine Geotechnics students: Christopher Roobottom and Andrew Steele to help fund three months of study at the Renard Centre for Marine Geology in Belgium. The prize-giving was attended by the Master of the Welsh Livery Guild, Wing Commander Graeme Morgan, and by local Liveryman and former Vice Chancellor of the University, Professor Eric

Sunderland. The School hosted a small reception, and the Wing Commander was given a tour of the School's facilities.

In September 2005 two grants were awarded by the Society for Underwater Technology [£4,000 to Claire Biggs (MSc Applied Physical Oceanography) and £2,000 to Sophie Clayton (BSc MarBiol/PhysOcean)] whereas the Fishmongers Company donated £3,000 to assist in running a field course in Croatia for second-year Marine Biology students.

## Facelift (cont. from p1)

In addition to the three academic units the College also includes CAZS Natural Resources; Biocomposites Centre; North West Cancer Research Fund Institute; and Ocean Science's own applied unit Centre for Applied Marine Sciences (CAMS). Professor Steve Hawkins, a marine biologist and former Director of the Marine Biological Association, Plymouth, has been appointed as the Head of CNS. The College Manager is Dr Garry Reid, former Assistant to the Head of the SOS for the last 11 years and Treasurer of SOSA.

The new College, set up to compete in Environmental and Biological Sciences at the highest international level, has over 180 academic and support staff, a student body of 1350 and an annual budget of over £10 million with an additional £6 million income from competitively won research grants. Ocean Sciences remains at the heart of the teaching and research, not only as a subject but as a School; the university's intention being to integrate activity wherever appropriate but to maintain the identity of Schools.

## "Time To Move On ..."

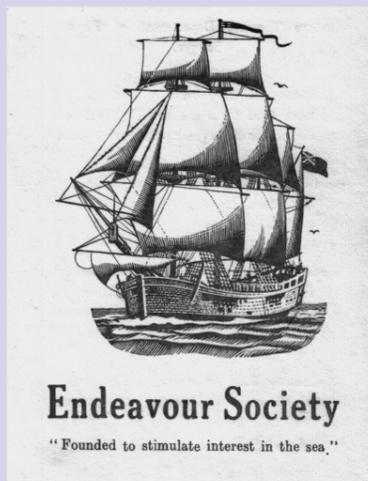
Said Andy Yule in his thank you speech at his informal retirement party on the sunny afternoon of the 30th of July 2007. Andy joined the labs as a member of the NERC Unit of Marine Invertebrate Biology during the '70s, and when the unit was wound up, he was offered a research-related post in the marine biology department and later a lectureship; past students still recall his dreaded "stats" lectures. Teaching staff, senior students and old friends gathered in the Auckland Arms to wish Andy a happy retirement with a buffet feast of tasty morsels and liquid refreshments from the bar. Andy was presented with a few "presents" none of which were of the gold watch variety. There were no formal speeches, but Dave Grove did ask a few questions about embarrassing moments in Andy's athletic past!

The event was somehow symbolic of the end of the old order and the beginning of the new - a change reported elsewhere in this issue. So one of the last links with the era recounted in the book "Across the Bridge" was broken. "The old order changeth, yielding place to new". Lets hope the new order will be as successful as the past.

George Floodgate

## Endeavour Society: sailing Together To Shape The Future

Once a year in spring the Westbury Mount Lecture Theatre fills with current students who come to get advice and guidance on how to sculpt a career in the marine science field from their degree. A group of SOS alumni dedicated to help the next generation come from all over the UK to tell their tales of life in the "real world" and to help current students find a job or internship. The Careers Evening is an event jointly organised by SOSA and the Endeavour Society. It has become an annual tradition and a well-attended one thanks to the continuous efforts of Gay Mitchelson-Jacob, SOSA's Membership Secretary, and Dei Huws, the coordinator of the CORDAN scheme. They both manage to juggle research, teaching and family together with organising this valuable event. There really is life after Bangor!



**Named:** after Captain James Cook's ship.  
**Established:** over a cup of coffee by John Gray, a postgraduate student, in 1965.  
**Objective:** to "stimulate interest in the science of the sea in all its aspects"  
**Biographical:** it grew over the years, fulfilling the aspirations of its founders; folded in 2000; resurrected a year later by Ray Seed and the SOS Association.  
**Other:** attendants get the chance to chat to the speakers over a pint and enjoy the FREE FOOD afterwards in the Auckland Arms, a kind offer by the landlord, Simon Hardy.

THURSDAYS AT 19.30 AT WESTBURY MOUNT LECTURE THEATRE

For updates or contributions to our talks:

[www.endeavoursociety.org.uk](http://www.endeavoursociety.org.uk)

## A Big Thank You to our speakers so far:

### MAY 2005

**Nigel Pontee** (BSc GeolOcean, 1991), Halcrow,  
**Graham Whale** (BSc MarBiolOcean 1981),  
Shell Global Solutions (UK),

**Tony Seymour** (BSc Zoo/MarZoo 1969; PhD 1971-76),  
an independent fisheries and environmental consultant;

**Nick Jacob** (MSc PhysOcean 1983),  
Menai Geophysical Consultants Ltd.

### MARCH 2006

**Liz Morris** (BSc MarBiol 2002, MSc MEP 2005)

**Harry Goudge** (MSc MEP 2005), Marine Ecological  
Solutions Ltd.;

**Andy Barker** (BSc GeolOcean 2003), Lankelma CPT;

**Mike Wilson** (known as Geordie), (BSc GeolOcean 1992),  
Pelarus Surveys Chem;

**Chris Greenwell** (BSc MarChem 2000), CAMS.

### APRIL 2007

**David Vousden** (BSc Zoo/MarZoo '82, PhD MarBiol 1995),  
Project Development Specialist and Evaluator,  
International Waters and Biodiversity;

**Sarah Wood** (BSc MarBiol/Zoo 1990),

Senior Maritime Policy Officer, CC Wales;

**Stephen Jones** (BSc MarBiol/Biochem & SoilScience 1976,  
MSc MarGeotech 1979), UWB Business School.

## Challenges And Rewards After SOS: Sailing Around The World

On 3 October 2004 VAIO, a team of seventeen international amateur volunteer sailors left Portsmouth. Sponsored by Sony UK and with Amedeo Sorrentino as the skipper, they took up the challenge to sail around the world in the "World's Toughest Yacht Race", The Global Challenge\*. Amongst them Catherine Jones. Catherine has obtained a BSc in Ocean Sciences in 1995 and an MSc in Water Science & Technology in Trinity College, Dublin. At the time of the race she was working as a water quality scientist with Mid Kent Water PLC, Snodland, Kent, who kept her job for her to come back to after the race.

For the next 10 months the race took the sailors to some of the most exciting places around the world: Buenos Aires, Wellington, Sydney, Cape Town, Boston and La Rochelle. However, living on a boat for almost a year would be best described as living in a washing machine: getting washed, spun but never dry! Yet Catherine Jones has a different view on that.



© Catherine Jones

Catherine Jones (top, far right) and other members of the VAIO team.

the greatest sailing achievement of my life, the Global Challenge. I joined the Royal Naval Reserves (RNR) six years ago, belonging to HMS President, and I have recently become an officer which is a new challenge in itself.

Following seven demanding but exciting races around the world we came joint 7th overall, out of the twelve 72ft purpose-built identical yachts that took part, which included three podium positions throughout the race. In particular we finished leg 7 from La Rochelle to Portsmouth in 3rd place, winning both the first across the start line in La Rochelle and the fastest 24-hour run on this final leg, which made for a great finale to the race.

I remember being so cold I thought I was going to get frostbite, so hot I thought I would melt into a puddle on the deck, so wet I

thought I would turn into a fish, so scared I wanted to be anywhere else in the world and so excited I never wanted the experience to end. Huge waves one moment crashing over the yacht, with winds up to 65 knots, followed by times of absolutely no wind, just bobbing around in the middle of the ocean sometimes going backwards!

Improving sailing skills while clocking up over 33,000 nautical miles and witnessing some amazing wildlife, including many dolphins and whales, and some great meteorological phenomena like beautiful sunsets, water spouts and the Southern Lights in the Southern Ocean were part of an amazing and unforgettable adventure.

On 16th July 2005 and after ten months away from home I returned to Portsmouth having completed my wild ambition to sail around the world. No plans to go off on another sail-

ing trip at the moment, as I need to earn some money and get back to a more normal life!"

Is it hard to settle back into a mundane nine-to-five existence having returned from an adventure of a lifetime? Or is Catherine getting ready for another challenge? Whatever she does next, one thing is for sure. It takes a certain sort of character to take on that kind of challenge and in the words of Sir Chay: "A lot of people can't take that conscious decision to step over the threshold from thinking about doing something, to wanting to do something, to saying I will do it. These people can."

Catherine Jones

\*The BT Global Challenge race is inspired by the record-breaking achievement of Sir Chay Blyth to sail solo around the world against the prevailing winds and currents in 1971. Two years prior to that as a sergeant in the Parachute Regiment, he and Captain John Ridgeway rowed a 20ft open boat across the Atlantic. In 1973 he trained a crew of Paras for the Whitbread Round the World race. The novice sailors were first across the finishing line. A determined Scot with a vision of sailing for all, Sir Chay set up the Challenge Business which organises the race and a host of other amateur and professional events. His philosophy? Ordinary people can do extraordinary things - given the chance. Housewives, policemen, designers, engineers, scientists, doctors, lawyers, carpenters, bankers, dog trainers, an age range from 21 to 60 and with no or little sailing experience, all take up the challenge - some have even been known to sell their houses to pay the full £25,000 fee for their berth.

How has your life turned out after Menai Bridge?  
Contact the Editor  
ioanna.psalti@scarlet.be

“What led me to take part in the Challenge? I have always been a keen sailor, learning to tack and jibe at the age of twelve, whilst a member of the Sea Cadets Corps, a youth organisation in Tunbridge Wells. Through the cadets I achieved the RYA Dinghy Sailing Instructor and Level 5 Dinghy Sailor qualifications and sailed on T.S. Royalist, their tall ship, taking part in the Tall Ships Race in 1990. I was also a member of the university sailing club whilst studying at Bangor for a BSc in Ocean Sciences with the School of Ocean Sciences, which came in useful during the sailing. Since then I have achieved my RYA Day Skipper and sailed over 3500 nautical miles on different sizes of yacht, around the UK and the Caribbean, before undertaking

## A Thank You Conference

A truly memorable meeting with over 120 delegates and 52 talks -held at Bangor on 10-12 April 2006- was a fitting tribute to John Simpson's contributions to shelf sea and estuarine science. *Coastal and Shelf Seas Conference - Present Understanding and Future Challenges* celebrated the tremendous scientific achievements of John on the occasion of his retirement.

John's contributions to Oceanography are both varied and substantial. His work includes exploration of the hydrography of shelf seas and estuaries, advancement of our fundamental understanding of circulation and mixing in the coastal ocean, the development of instrumentation and data analysis techniques, and the education of an extraordinary number of students. But his impact has been much broader than can be put on a list. John has always been willing to engage junior scientists in substantive conversations in both formal and informal settings. His driving interest in the underlying science, and his openness to new ideas, have allowed him to be a mentor to young scientists just through his approach to science, and his influence goes well beyond those who he officially mentored.

His leadership and gentle advocacy at local, national and international forums has helped establish the University of Wales, Bangor,

as an internationally recognized centre of excellence for the study of the physics of coastal seas. Before most of his contemporaries, John realized that large interdisciplinary research programs were critical if we were to understand shelf sea ecosystems. He effectively advocated for several such programs with both funding agencies and less enlightened colleagues, and then helped administer them. John has both powered and steered Coastal Physical Oceanography in the United Kingdom.

Sponsored generously by organisations with whom John has

had close links over the years (POL, the Challenger Society and the Institute for Marine Scientists and Engineers), the manufacturers and distributors of the instrumentation used (RDI, Chelsea Instruments and ExplorOcean) and also the users of SOS's science (Billiton), the conference was structured in order to reflect John's interests. Each session provoked interesting and informative debate about the future direction of Physical Oceanography.

*edited from the welcoming letter of the Organizing Committee*

*Spot John Simpson amongst his extended oceanographic family!*



© SOS

We do not ask for **YOUR KIDNEY!**  
**YOUR TIME** is what we need!  
 Either **PUT YOUR WORK EXPERIENCE AT THE**  
**DISPOSAL OF CORDAN**  
 or **SHARE IT WITH CURRENT STUDENTS**  
**AT OUR CAREERS FAIR**  
**PLEASE** fill out the form on page 9-10  
**THANK YOU**

## Help SOSA In Its Aims

Contact **DAVID ASSINDER**  
**d.assinder@bangor.ac.uk**

SOSA Membership is free and automatic  
 to all SOS alumni and staff (unless they opt out)  
 Neither staff nor alumnus/a but wish to receive our newsletter?  
 Then register by filling out the Personal Information Form on page 9.

## CORDAN PARTICIPANTS

**2007-2008**

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 RPS Energy

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**Careers in the SI Business and Development of Small/Medium Company Business**

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**Colin Poat**

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 Advice on **Marine Geophysics as a Career: Who, What, Where, When and Why?**

**Stephane Theurich**

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 Advice on **Marine Geophysics as a career and generally working offshore.**

**Ann Truesdale**

Trials Co-ordination, Medical Statistics Unit, London School of Hygiene,  
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 Advice on **Career in Health Services Research, Public Health & Medical Statistics**

**Nicola White**

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[www.royalhaskoning.com](http://www.royalhaskoning.com)  
 Advice on **working in environmental consultancy**

**More details on the latest CORDAN offers on page 12**

## ASSIST IN LEARNING FUND

Over the years the SOSA has slowly realised its aims: to connect anyone associated with the School with other members, and to help the present generation of staff and students. To this latter end, assistance from alumni takes various forms: some donate books and/or money, others join the CORDAN scheme or come to give talks to students about careers and life after graduation. The SOSA has recently decided to take up a suggestion by George Floodgate and extend help to the present students by establishing the Assist In Learning Fund.

As everybody must be aware, students today often complete their studies with considerable loans outstanding. Financial difficulties seriously interfere with their prospects particularly at times of unfortunate events. Administered via the School, the Assist In Learning Fund is intended to provide emergency assistance for students whose access to higher education might be inhibited by financial difficulties which were unforeseen at the start of the course. The Fund will be allocated with reference to individual needs and entirely at the discretion of the Head of the School of Ocean Sciences.

The Fund relies purely on donations. If the donor is a UK taxpayer, the donation qualifies for the Gift Aid Scheme, i.e. the value of the gift is increased at no cost to the donor as the scheme enables the University to claim back the tax on such donations. A more detailed explanation as to how the scheme works is found below.

### HOW GIFT AID WORKS:

1. You must pay enough tax overall to cover the tax we reclaim (25p/£1 as from April 2008). This includes tax under PAYE and tax deducted from bank interest. If in the future your circumstances change and you no longer pay sufficient tax, you can cancel your declaration or advise us how much tax we may reclaim.
2. If you are higher rate taxpayer we only reclaim tax at the basic rate. You will obtain further tax relief by including donations on your tax return. Remember to keep a note of them!
3. If you are unsure as to whether your donations qualify for Gift Aid tax relief, please contact the University Development Office or ask your local tax office for leaflet IR65 *Giving to Charity by Individuals*.

### WOULD YOU LIKE TO CONTRIBUTE?

**Any gift however small is welcome!**

**Please fill in the form on p10**

**And remember:**

**with the Gift Aid Scheme a £10 gift becomes £12.50**

**THANK YOU FOR CONSIDERING  
 THE ASSIST IN LEARNING FUND**

## LET OLD PALS FIND YOU!

Have your contact details published in the WET column  
E-mail: [ioanna.psalti@scarlet.be](mailto:ioanna.psalti@scarlet.be)  
with subject reference  
WET/BRIDGE

## W rite E -mail T elephone

All Contact Details in this issue were correct at the time of going to print

## PLEASE NOTE:

Your details will appear in two consecutive issues and will be removed thereafter.  
You may re-submit your details for inclusion in future issues.

## Len Evans

**Stephen Foster (BSc MarBiology/Zoology 1974)** would love to hear from anyone from the 1974 class of Marine Biology and particularly from Os Phillips, Richard Prickett, Carol Turley, Bob Grossman and Mary Armstrong (the last two were last heard of in one of the islands of Hawaii!).

**Dan Fox (PhD Oceanography)****Norm Sloan (BSc Zoo/Mar Zoo 1971)****Tim Harvey (BSc MarBiol/PhysOcean 1998)****Teong-Jin Tan (Tan Tj) BSc MarBiol/PhysOcean 1983)****Walter Hubbard (MSc FishMan&Ecol 1984)**

**Adrian Spencer Smith (BSc Oceanography 1968)** is now living in Indonesia; Komplek Mitra dago, Pearahyangean, Jl. Agave Blok M-17, Antapani, Bandung, Indonesia

**Richard Charles Hearn (BSc Applied Maths/PhysOcean 1976)** lives in USA and would like to hear from Malcolm Cooper and Steve Jermy.

**Liam McGreevy (BSc MarBiol/PhysOcean 2002)**, 25 Byland Close, Bromsgrove, B61 7PL

**Paul Taylor (MSc PhysOcean 1996)** is looking for Duncan Cook.

**Martin Terence Gibson (BSc MarBiol/PhysOcean 1982)** is living at 6 Manor Green, Harwell, Didcot, OX11 0DQ.

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[PaulT@metoc.co.uk](mailto:PaulT@metoc.co.uk)

## Kind words keep us going!

## THANK YOU!

Hi  
I used to run the Endeavour Soc during 93/94 and 94/95 ... The 3 years I was a student we were lucky enough to have a brilliant society with everyone really getting involved. ... really pleased to hear that folk are mucking and with enthusiasm once again.  
In addition to working in oncology research I'm still regularly visiting North Wales for all it has to offer, got married in 2002 on Church Island, just had my 40th birthday celebration white water rafting there and about to come back for yet another Old Boys knees up.

Was lovely to have a little read thru and see what folk and the SOS are up to, many thanks for your efforts,

Meriel Woodruff

The Bridge is an extremely interesting publication, which does a great job of "linking the past and present" (especially for those of us so far away from SOS)

Bob Rickman

## Alive and Kicking

**Anderson, John (BSc MarGeots 1994)** works in Farnborough with SUN Microsystems.

**Butson, Jonathan (BSc OceanScience 1996)** still works with the "railways" as the Great Eastern Operations "trouble-shooter" providing technical, operational and signalling advice to the Timetable and Engineering Works Planners. Congratulations to Jonathan on his marriage to Teresa during 2005.

**Cage, Alix (B.Sc Geological Oceanography 1999)** left Bangor for an MSc in Quaternary Science in the University of London, Royal Holloway/UCL and subsequently for a PhD from the University of St Andrews, for a thesis entitled *The Modern and Late Holocene Marine Environments of Loch Sunart, NW Scotland*. Alix is now working at the University of St Andrews on the EU Framework 6 funded project, Millennium.

**Cripps, Rosie (BSc MarBiol/PhysOcean 2006)** and winner of the National Student rodeo in kayaking for two consecutive years, representing Bangor) has spent the summer of 2005 exploring some remote rivers (some never paddled before) in an expedition to Northern Norway.

**Gelfort, Ralf (MSc MarGeots 1998)** has taken up a post with Baker Hughes in Hannover. Congratulations for Ralf's submission of his PhD Thesis in January 2007.

**Finlayson, Karen (BSc GeolOcean 1992, PhD MarGeotech 1998)**. Congratulations to Karen on her marriage to Chris during 2005 and on the birth of their daughter Lucy in November 2006.

**Henley, Pete (BSc MarPhys 1981)** Many congratulations to Pete on successful completion of his PhD in Australia. Since leaving Bangor Pete has been involved with marine remote sensing work.

**Narayanawamy, Bhavani (BSc MarBiol/PhysOcean 1997)** has been appointed Project Officer for the European Census of Marine Life. In 2005 Bhavani took part in the 3 month Marine Research cruise to the Antarctic /

Weddell Sea area on board the RV *Polarstern*.

**Portet, Montse (MSc MarGeots 1996)**. Congratulations to Montse and Sébastien on the birth of their son, Thibaut, (a brother to Charlotte) in July 2006.

**Probert, David (BSc MarBiol/PhysOcean 1998, MSc MarGeotech 1999)** worked as a geophysicist at Svitzer in Great Yarmouth until Fugro Survey knocked on the door and bought the company in 2003. He continued as a geo for Fugro until 2005 when he moved up to Aberdeen permanently and became a Project Manager for one of their survey vessels, operating in and around the North Sea. David married Wendy Stuart (BSc MarBiol 1998, MSc Marine Ecology 1999) in Norwich in September 2004 and they have a son James, born in August 2005 and another on the way in October.

**Ratcliffe, Keith (MSc MarGeots 1972)** has now moved to the Stirling area of Scotland where he is a Freelance Management Trainer in his new business "Project - Management - Scotland". His wife, Geraldine, works as a Disability Adviser for Scottish Further Education. Nevertheless, I trust they will still have time for recreational activities - both in climbing some of the Scottish Munros and in sailing their 8-metre yacht from Oban.

**Ross, Brian (Staff Member in 1970s)**. Congratulations to Brian on his retirement during 2005. Since leaving "the Office" Brian has been able to become much more active re his skiing and golfing activities.

**Schoolmeester, Tina (MSc MarGeots 1997)**. Congratulations to Tina and Joan on their marriage in February 2005 and on their successful applications for posts with the UNEP Shelf Programme based in Arendal, Norway. Tina is now employed as a geophysicist involved with acquisition, prepatation and interpretation of geo-scientific data.

**Simpson (now Hind), Kate (BSc GeolOcean 1993)** has taken up a post within the Ipswich Borough Council (Internal Audit Dept.). Congratulations to her and her husband Colin on the birth of their second son, Elliot, in April 2006.

**Tay, Pui Leng (BSc Ocean Sciences 1994)** was back in Bangor for a holiday in June 2006. Pui has taken up a new appointment as Senior Geophysicist with Horizon EP in Holland in October 2006.

**Taylor, Paul (MSc Physical Oceanography 1996)** worked offshore for TT Surveys for a couple of years and then for British Maritime Technology in Southampton for 5 years. Paul is now working for Metoc plc. in Liphook, Hants.

**Weilochowski, Andrew (MSc PhysOcean 1970)**. We are sorry to hear about your accident on the climbing wall, Andrew. Here's hoping to speedy recovery and to continuation of your climbing activities.

**Williams, Noel (MSc Mar Geots (1970)** has retired from the Teaching Profession. Congratulations and you can now enjoy more time both in the mountains and with the Lochaber Mountain Rescue Team.

**Yule, Andy (SOS Academic Staff)**. Congratulations to Andy and his wife, Kylie, on the birth of their second son in 2005.

## Mariners Adrift

*Do you have any information as to the people who have been lost from our database? Please let us know. Your help would be much appreciated.*

*Many thanks to all those who have helped us so far.*

M M Abubakr

P A Atkin

Lisa Bate

John Rutland Beeching

Sumeet Benawra

Matthew Birkett

Martin Block

Dr G S Bourne

Catherine Bowker

Daniel James Brinton

Mark Broughton

D P Brown

Kevin Butterworth

Robert B Cain

Stavros Chatzifotis

Marina H Christopher

Malcolm Trevor Cooper

Fiona Davison

Owen Day

Jose H De Lima

Joana Isabella Doyle

Samantha Eagles

Alan David Fox

Hugo Galanes-Alvares

Meriel Graham

James Glennie

Stephen John Hall

Robert F Hicks

Robert William Hilliard

Andrew George Hornung

Stephen James Hovey

David R Hughes

Owen Hutchins

Hayley Jack

Paul Jowitt

Andrew Jones

Daniel Jones

M P King

Nicola Leah

David Lewin

Andrew Lovatt

Jane Lloyd

Patrick Adrian McConney

Jennifer Thais McIlroy

Arun Madisetti

Nicholas Miller

Nabeel Mirza

Agatha Navarro-Curbelo

Steven Paul Nesbitt

Richard Owen

Richard David Peck

Andrew Herbert Peet

Christopher K Pham

Sally L Philpott

Tracy Poet/Poey

Gareth Price

David W Rees

David Reid

Dibba Sambul

Dario Savini

Alexandra Mary Sharrocks

Colin Shearer

Robert John Shields

Julie Slater

Rory Smyth

Jennifer Sneddon

Daniel Street

Lynette Thomas-Rees

Ian William Thorburn

Ewan Wakefield

Mark Walton

Joanne Warnes

Sarah Kate Watson

Richard West

Karen Wild-Allen

Paul Robert Williams

Barbara Zennaro

## Good Things Also Come in Three's (from p1)

Sophie was surprised to have won the JRJ prize, one of four awarded to the best graduating students at Bangor University each year. She believes that the interdisciplinary way in which the Ocean Science courses are taught in Bangor is valuable and good preparation for going into ocean research. She talks enthusiastically about her time at the School of Ocean Sciences and the strong support she had from Dave Bowers, her personal tutor. Sophie, who is 28, comes originally from Coltbridge Gardens, Edinburgh, has a first degree in Fine Art. She attended St George's School for Girls, Edinburgh. Before studying at Bangor University, Sophie worked as a scuba diving instructor in Australia, the UK and the Maldives.

## Marine Science 2008

In September 2008 Bangor will be the host to the 13th *Challenger Society Conference for Marine Science*, the main forum for interdisciplinary marine science within the UK. The major biennial event is organised by *The Challenger Society*.

Check **Marine Science 2008** at  
[www.challenger2008.co.uk](http://www.challenger2008.co.uk)

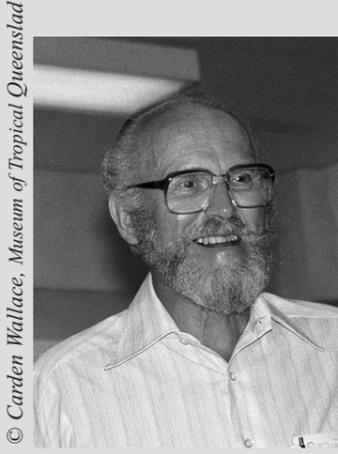
THIS SEARCH  
NEEDS YOUR HELP!

Raadhika Mahadevan (BSc MarBiol/ PhysOcean1979) studied in Bangor around 1977 with Dr Eifion Jones. Some photos belonging to her have been found in Eifion's house, and the School would like to return them to her. If anyone is in contact with her, please ask her to get in touch with Gay Mitchelson-Jacob. Contact details page 9.

THANK YOU

## IN MEMORIAM

## CYRIL BURDON-JONES 1919-2006



Cyril Burdon-Jones was born in Anglesey, the family having a pharmacy in Holyhead. Cyril was one of Professor FW Rogers Brambell's students at Bangor where he obtained a first class degree in Zoology in 1941. He held various staff positions within the department of Zoology prior to joining the Marine Biology Station, Menai Bridge in 1958 as Senior Lecturer. He later became the Deputy Director running also the field courses and managing the small boats and boatmen prior to the arrival of *RV Prince Madog*. A pleasantly reserved person, Cyril was very thorough and efficient in whatever he did. He had a quiet sense of humour which was always ready to surface. He went as the Foundation Professor of Marine Biology and Head of School to James Cook University, Townsville, Australia, on 1 Jan 1968 when it became independent from the University of Queensland. He was accompanied by several other young Menai Bridge folk to found that institution. Soon after his arrival the Biological Sciences moved from the urban campus to the developing - and beautiful - campus below Mount Stuart. One of his first achievements was a significant document proposing a marine research station at Townsville. Largely as a consequence of his initiative a small marine laboratory was opened at Cape Pallarenda, on the edge of Townsville. In his early years, apart from building up the department, which included Marine Biology, Zoology and Botany, a lot of his time went into the lobbying for a permanent Australian Institute of Marine Science (AIMS). It seems generally recognized that Cyril's lasting contribution was the consequence of his lobbying - namely the AIMS, founded in 1972, was sited in the Townsville area (Cape Ferguson, south of Townsville, with access to clean sea water, which Cape Pallarenda couldn't offer) and not where lots of other people wanted it, somewhere down south (Canberra, Sydney or Melbourne) in the centres of population. Townsville was a small North Queensland town in the early 70s and it later became the fastest growing tropical city in the world. Cyril retired to Brisbane, as his children were there and he became an Honorary Associate of the Queensland Museum, continuing to work on Enteropneusta, a group on which he was a world authority where he completed the Catalogue (part of the Fauna of Australia). Cyril died 24 February, 2006 in Adelaide, Australia.

*Pat Bowden, Sinclair Buchan, Ivor Rees & John Ryland*

## ALISDAIR GEORGE MCKAY 1943-2006

Alasdair George McKay - geophysicist, Haggis maker, and man of many talents, died suddenly on October 17, 2006, in Dartmouth General Hospital at the age of 63. He wished that his body be donated for medical research, but a memorial service was held in Christ Church, Wentworth Street, Dartmouth, on Tuesday, October 24. A distinguished, gentle man who possessed a high intellect yet was never arrogant in his profession of knowledge: he calmly listened to discussion or argument then quietly pronounced - with reasoned, original, incisive arguments of his own. His writing was often eloquent and artful, reflecting an appreciation of irony and a dry sense of humour that was often self-deprecating.

Alasdair obtained his BSc at the University of Glasgow, an MSc in Marine Geotechnics at Menai Bridge in 1968 and a Doctorate in Geophysics at University of Durham. He joined the Nova Scotia Research Foundation and later became a consulting geophysicist in Dartmouth forming a company naming it, not surprisingly, Haggis Geophysics. Alasdair was famous in these parts as a supplier of fine Haggis but his company was not named for the food but for the mythical little character, the Haggis, invented by Pictish priests and modeled in front of ancient congregations made out of a stuffed sheep's stomach.

Alasdair worked on many sea-going projects despite suffering the scourge of sea sickness. He was a man who could be depended on to do his duty and beyond: when a nasty gale would be blowing and all supernumerary personnel would abandon their stations seeking refuge in their bunks, Alasdair

would be in the recording room, hanging on for dear life, feeling wretched but dutifully making copies of digital data for security purposes.

Alasdair was resourceful and imaginative, "lashing up" some electronics that looked like a nightmare but worked. During the era when we were just beginning to grapple with huge computer files we needed to transfer gigabytes of data without having the capacity in the office. Alasdair, having a computing centre that he and his son Robbie had constructed at home, tied our computer to his back and rode off to Dartmouth with it - on his bicycle.

Anyone who worked with Alasdair was in awe of his quiet brilliance, his exceptional knowledge of history and science, and of English etymology. In fact when Alasdair worked with me and my colleagues in interpreting 3D seismic data from offshore Nova Scotia, Newfoundland and Brazil, one thought twice about asking Alasdair a question with an historical basis because he would provide passionately an explanation of dissertation length and convolutions!

Alasdair professed to have little interest in bird watching but delightedly he "tagged-along", (as he put it) with Pat and her bird-watching cohorts to exotic destinations like Cuba and Hawaii. Alasdair was very proud of his children; of Elizabeth's graduation with a degree in education and of Robbie's successes in computer technologies even when Robbie's experiment in mass data transfer a few years ago brought the total Eastlink (or Aliant) network to its knees briefly, in the process establishing Robbie's own place in the urban mythology of Halifax.

The quotation from Robert Louis Stevenson is an eloquent reflection on Alasdair's life:

"That man is a success who has lived well, laughed often and loved much;  
who has gained the respect of intelligent men and the love of children;  
who has filled his niche and accomplished his task;  
who leaves the world a better place than he found it;  
whether by an improved poppy, a perfect poem or a rescued soul;  
who never lacked appreciation of earth's beauty or failed to express it;  
who looked for the best in others and gave the best he had".

*John J. McG. Stewart, Halifax, Nova Scotia*

## PETER JACKSON 1948-2006

Peter Jackson obtained his BSc in Marine Biology/Zoology in 1969. He taught at Fairfield Grammar School, Bristol, after returning from VSO in Nigeria and a short time teaching in Windsor. In October 2006 Pete died at the age of 58 in Cam, near Dursley in the company of his partner Annette Goodall and his brother.

*Edwin Jones*

## TONY SEYMOUR 1948-2006



*Tony Seymour*

Tony left Menai Bridge with a PhD and he went to work in Africa, opening the first fisheries station in the north of Malawi at Karonga in 1978. Here he formulated policies, initiated reforms and developed resources, making a real difference to the communities of the region. Many adventures and 10 years later, determined to try to make a living from commercial fishing in North Wales, he had a revolutionary fishing vessel made to his own specifications. This boat proved extremely seaworthy and he had many adventures fishing in conditions that prevented other vessels from going to sea. All who crewed for him became friends and will have fond and rich memories of their fishing trips.

Tony was born on 30th July 1948 and he came to Menai Bridge as an undergraduate in 1966-69 and as postgraduate in 1971-76. He was a clever if somewhat irreverent student, who led a lively and colourful existence in Menai Bridge. Tony loved the sea and spent a good deal of time fishing.

This hands-on experience of the fishing industry enabled Tony to excel at further consultancy work on fishery issues, where his good judgement and sense of fair play earned him respect from both sides when he was required to resolve disputes between fishermen and other marine interests.

One of the main reasons he was so good at his work was his being simply good company, a very strong element of his social life which was reflected in the many and diverse friendships he had all over the world: hundreds turned up to his memorial services in both North Wales and in Africa. Tony was a keen outdoors person, always wanting to be involved with the natural world either through his work or through his leisure activities. He was constantly engaged in hunting and fishing, adopting a carefully considered philosophy that it was better to supply oneself and one's family with food directly rather than to buy it off the supermarket shelf. He was a keen student of life but even more so a willing teacher and a kind instructor to those who recognised his skills and wished to learn from them. He was also a keen traveller and explorer and a large part of his heart was in his beloved Africa from where he was returning when he was struck down by an embolism at the age of 57. Tony is survived by his wife Jani, a son Llewellyn and a daughter Rosie Ellen.

*John Coppock*

## PHILIP WALKER 1956-2006



*Philip Walker*

Philip Walker obtained his BSc at Oxford University and his MSc in Marine Geotechnics in Menai Bridge in 1977. He worked for Gardline Surveys in Great Yarmouth, Comap Geosurveys in Manchester, BP and finally Shell International in the Hague under another SOS Alumnus Cid Green. In the mid 1980s he moved to Shell Expro in London and became one of the world's leading experts on shallow gas hazard surveys. He chaired the UKOOA Shallow Gas Committee and was instrumental in developing the Guidelines for Mobile Drilling Rigs - an industry accepted standard. In recognition of the work Phil did for the Western Frontiers Association, the British Geological Society named one of the features identified on the continental slope of the Faroe-Shetland Channel the "Walker Slide". In 1998 he became Team Leader of Seismic Operations, a team of eight technical experts organising all Shell's marine operations in the UK. In 2003 when Shell within Europe underwent a major reorganisation and all the individual offices in the continent were merged into Shell EPE, Phil became Head of Geophysical Operations, responsible for all seismic operations in The Netherlands, the UK, Norway and Ireland.

Phil remained an inspiration to his colleagues as he continued to act as team leader of the EPE Geophysical Operations Group whilst undergoing chemotherapy. A solid team player and a coach for many younger staff, Phil cared deeply about the personnel involved in Seismic Operations and was clearly a true HSE champion. He was a great influence and friend to many of his colleagues, giving them support in both their careers and personal life. Phil loved socialising and always kept work in perspective. Phil died in hospital on 30 October 2006, with his wife Janet at his bedside. He will be greatly missed by his colleagues both past and present.

*from the obituary by Nick Jacob & friends*

## GAVIN WINSBORROW 1976-2006

Gavin has met an untimely death at the age of 29 on Saturday 12th August 2006 while he was paddling the grade 4 Sitter River, near St Gallen, in the Swiss Alps. An all-round white water paddler and a wonderful guy, Gavin was for many years a valued and highly respected member of the School of Ocean Sciences. He obtained a BSc in Geological Oceanography in 1998 and his PhD in 2004. Full of life and energy, always willing to help out anyone and entirely selfless, Gavin was as good a person as anyone can hope to meet, a truly good bloke. He'll be missed greatly by so many people.

*from contributions by Gavin's friends*

**GAVIN WINSBORROW AWARD  
FOR THE GREATEST OVERALL CONTRIBUTION TO  
STUDENT LIFE  
IN THE PHYSICAL OCEANOGRAPHY DEGREE COURSES**

Set up by Gavin's friends this award goes to the most enthusiastic, helpful and selfless student in both the academic and social arenas over the three year course. The student may collect the award in fancy dress at the graduation ceremony.

Anyone who knew Gavin and would like to contribute? Please fill in the form on pages 9-10  
**THANK YOU**

**A CYBER MEMORIAL**

Eifion Jones, SOS staff during the 60's and until the 80's, was much loved and respected as a teacher and as a colleague. He was tragically lost in an accident some time ago but his memory lives on. A short account of the life and work of Eifion Jones has now being added to the Wikipedia site [http://en.wikipedia.org/wiki/Eifion\\_Jones](http://en.wikipedia.org/wiki/Eifion_Jones) by Osborne Morton, one of Eifion's students.

**ANY ADDITIONS WELCOME**

Tony Fogg, Head of the Department of Marine Biology in the 70s and 80s, was a gentle man, an inspired scientist and enthusiastic botanist. A Ginkgo tree has been planted by his family in the corner of the Glyndwr car park along with a commemorative plaque as a fitting tribute to our various memories of Tony as a friend, mentor and colleague. The location was carefully chosen because that particular site is unlikely to be disturbed in any future building projects. At the request of the family the "tree planting" was a low-key affair with no ceremony.

Dave Thomas



Dave Thomas planting the ginkgo tree in the presence of Tony's family members and SOS staff.

PLEASE CUT, PHOTOCOPY OR SCAN AND SEND

**Careers and Opportunities in Research & Development: Alumni Network**

A scheme designed for mutual benefit of Alumni, SOS staff and current students. Established in 2000 in response to inquiries by alumni working in various fields and looking for potential employees or wanting to initiate research collaboration. **CORDAN** coordinates and formalises the transfer of information between the School, its current and past students, and interested companies and institutions providing also an insight into careers in ANY FIELD.

**DEI HUWS  
School of Ocean Sciences,  
Menai Bridge,  
Anglesey LL59 5AB  
d.g.huws@bangor.ac.uk**

Looking for potential employees, research collaborations or simply willing to give careers advice to current students? Please complete in **BLOCK CAPITALS** and return to:

**Full Name**

**Job Title**

**Company/Institution Name**

**Address**

**TEL.:** **FAX:**

**E-mail:** **WWW page (if any):**

Please tick if you are interested in:  
 Participating in the Careers Fair by giving a presentation  
 Helping in career choices by  telephone  e-mail

**Profession/Career you would be willing to advise on**

**PART I: RESEARCH & DEVELOPMENT INTERESTS**

Please give a short description of the field of research and/or development where you may hope for collaboration, any specific geographic area and funding requirements.

Please turn over

**PERSONAL INFORMATION FORM**

Whilst every effort is made to ensure that the information held by Bangor University is accurate, we would appreciate your help in informing us of any changes. Please complete this form in **BLOCK CAPITALS** and return to:

**GAY MITCHELSON-JACOB  
School of Ocean Sciences,  
Menai Bridge,  
Anglesey LL59 5AB  
egm@bangor.ac.uk**

**Data Protection Notice**

Alumni data is held securely and confidentially on the University's alumni database in the Development and Alumni Relations Office for the purposes of promoting closer links between the Bangor University and its former students. The data is available to the University's Development Trust, the International Office, faculty, academic and administrative departments and recognised alumni societies. The data will not be disclosed to external organisations other than those acting as agents for the University. The University is also obliged to pass alumni contact details (for graduates of 2002/3 onwards) to the Higher Education Statistics Agency (HESA) or to agents appointed to work on behalf of HESA for the purposes of the Destination of Leavers from Higher Education survey. Data is used for a full range of alumni activities, including the sending of University publications, departmental and alumni-specific literature; the provision of approved products, services and facilities; the canvassing of financial and non-financial support for the University; and the sponsoring of alumni geographic and special interest group events and activities through alumni representatives worldwide. Whilst every effort is made to ensure that the information we hold is accurate, we would appreciate your help in informing us of any changes. Under the terms of the Data Protection Act 1998 you have the right to object to the use of your data for any of the above purposes. For further information about the University's data protection policy please contact the Assistant Registrar, Mrs Gwenan Owen on + 44 (0) 1248 382413 or e-mail: [gwenan.owen@bangor.ac.uk](mailto:gwenan.owen@bangor.ac.uk)

**COMPLETE THIS SECTION AND SIGN IF YOU WISH NOT TO BE CONTACTED:**

- I do not wish to receive any further communications concerning alumni activities
- I do not wish to receive any communications from third parties regarding University approved products or services

**NAME (BOLD CAPITALS)** **SIGNATURE**

**Full Name**

**Name at Graduation** (if different from above)

**Degree and Year of Graduation**  
(Or Name of the Course attended)

**Email**

**Telephone number**

**CHANGE OF ADDRESS**

**TOWN** **COUNTY**

**POSTCODE** **COUNTRY**

- Please tick if you want to:**
- To join the SOSA Committee. Indicate which post to receive details.
  - Publish your address in the WET column. Add here any specific names of people you would like to hear from.

Please turn over

**60th ANNIVERSARY WEEKEND 21-22 JUNE 2008**

**Provisional Programme**

**Saturday 21st June 2008**

14:00 "Filming the Oceans", a lavishly illustrated lecture on the stories behind filming the underwaterworld from Alastair Fothergill, Producer of the BBC's Landmark natural history series Planet Earth and film Blue Planet. This lecture is open to the public and will be held in the Main Arts.

1600: Tea, a chat and a tour of the RV *Prince Madog* (subject to charter)

19:00 Drinks in Neuadd John Morris-Jones

19:30 Dinner in Neuadd John Morris-Jones

**Sunday 22nd June 2008**

Sunday morning: Tour of the labs and the RV *Prince Madog* (subject to charter)

Presentations by staff detailing SOS's current activities.

We have found out from previous events that most people seem to prefer to make their own arrangements for accommodation.

A list of local addresses can be found on the University website:

[http://www.bangor.ac.uk/courses/hotels\\_bangor.php.en](http://www.bangor.ac.uk/courses/hotels_bangor.php.en)

Use the Booking Form below to reserve as places are limited.

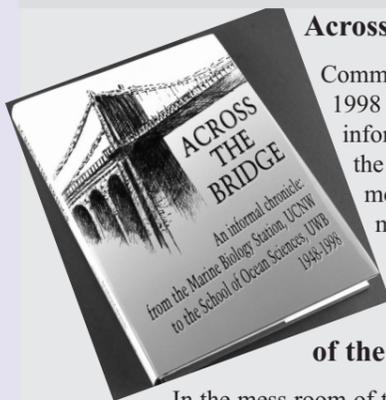
A more detailed programme will be available nearer the time.

**T H E S T A L L**

HELP RESEARCH AND STUDENTS

ALL PROFITS GO TO THE SCHOOL

TO ORDER ANY OF THE ITEMS SHOWN FILL IN THE FORM BELOW



**Across the Bridge** (Hardback, 273p) **£15.00**

Commissioned by the School to celebrate 50 years of existence in 1998 and written by an alumna, Ioanna Psalti, this book is an informal chronicle of life at the laboratories. Reviews described the book as 'monumental', 'scholarly,' 'fascinating' but for most of its readers it shall remain 'an enjoyable walk down memory lane'. All profits go to fund projects of the School.

**A4 size print of the Prince Madog £15.00**

In the mess room of the new vessel hangs an oil painting of the original *Prince Madog* by Patricia Ballard and commissioned with a donation by the family of Geoff Griffiths, a former MSc student. Proceeds from the sale of the prints go to the Geoff Griffiths Memorial Travel Scholarship supporting undergraduates to attend conferences.



PLEASE CUT, PHOTOCOPY OR SCAN AND SEND

**Bookings for the 60th Anniversary Dinner and/or orders from the Stall:**

Please fill in your name and contact details on page 9 and the appropriate form below and send to **Gay Mitchelson-Jacob (address as on p9)**. Cheques to be made payable to "Bangor University". Reservations for the Dinner to be sent no later than 30 April 2008.

**60th ANNIVERSARY DINNER BOOKING FORM & STALL ITEM ORDER FORM**

	No. of Guests	Unit Price	TOTAL
<b>60th Anniversary Dinner</b>		<b>£30</b>	
Please state if you or any of your guests have any special dietary needs (e.g. Vegetarian)			

DESCRIPTION	Qty	Unit Price	TOTAL
<b>Across the Bridge</b> (hardback, 273p, price incl.P&P)		<b>£15</b>	
<b>Print of the oil painting of the original Prince Madog</b>		<b>£15</b>	
<b>TOTAL</b>			

THANK YOU FOR YOUR BOOKING AND/OR ORDER

**DONATIONS**

If this form is accompanied with a donation (cheques payable to 'Bangor University'), please specify for which fund by ticking the correct box:

Gavin Winsborrow Award  Assist in Learning Fund

Please read the How Gift Aid Works section on p 6 before completing the Gift Aid Declaration below. THANK YOU

**GIFT AID DECLARATION**

**If you are not a taxpayer do not sign the declaration.**

Name of Charity:

Details of Donor

Title	Forename(s)	Surname
<input type="text"/>	<input type="text"/>	<input type="text"/>

Address

Post Code

I want Bangor University to treat all donations I make from the date of this declaration, until I notify you otherwise, as Gift Aid donations.

Signature

Date

You may cancel this declaration at any time by letting us know in writing. Please notify us of any changes in your name or address whilst this declaration is in force.

**CORDAN (continued)**

**PART II: VACATION JOB FORM**

Please indicate if you can offer any of the following by completing the form below and ticking where appropriate.

- VACATION WORK
- WORKSHADOWING

**VACATION WORK**

- Easter 2008  Summer 2008  Christmas 2008
- Easter 2009  Summer 2009  Christmas 2009
- GAP YEAR

**DURATION OF EMPLOYMENT MIN. MAX.**

- PAID  UNPAID

**DEADLINE FOR APPLICATIONS (if any)**

**Preferred method of application**

- Telephone  CV and letter  e-mail  Company application form

**Give highlights as to what type of work is or will be available**

**Candidates should be interested in**

**and have the following skills/qualifications**

**WORKSHADOWING**

How long and how many students can you accommodate?

**ANY OTHER VACATION OPPORTUNITIES**

(such as courses, open days, talks, etc)

Please send relevant brochure if available.

THE CONSPIRACY



1 The reunion of the students of the 80s took place at Oswald's, in Upper Bangor, on a warm October evening. These students were unlike the students of the previous decade. It wasn't that they studied more or drank less. They were simply different and so was their reunion, with the pre-dinner drinks session being a rather quiet affair. Students do eventually grow mature in their conduct, they were pleasant and appeared to be enjoying themselves, but for Colin Jago who had recently found out that he was now ...

... President of the SOSA?! As if it were not hard enough being Head of School! At least their dinners are good with plenty of wine...

2 Well, never mind Colin ... We cannot please everyone. At least the rest of the people seemed to be happy enough, as old mates found each other again.



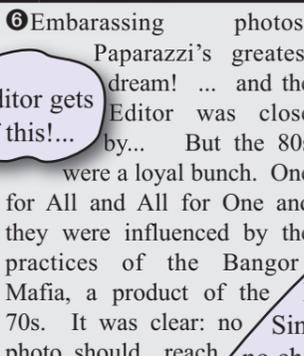
3 Dinner also proceeded quietly. No loud singing or throwing of paper aeroplanes. They placed their napkins on their lap, they sipped from their glasses and waited for their food. It almost reached the point of boredom with even Pat Bowden, the Chairman of the SOSA, being well-behaved. However when Pat rose to give his much anticipated speech ...

4 ... a commotion began amongst the alumni. Some became agitated, and there was a whispering noise as some began to ...

... bet he won't dare say the Forbidden Word?

... depends on how much he had to drink ...

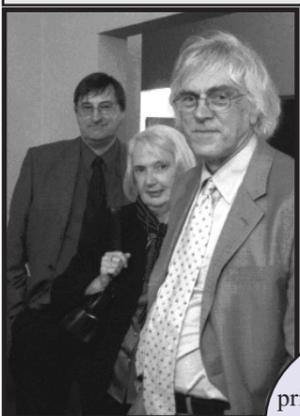
5 The Forbidden Word\* was never pronounced and it cannot be disclosed because ... well ... it is forbidden. Instead Pat presented the Editor with a marvelous blue wine glass, a gesture that deprived her from words for a long while. That guaranteed an even quieter evening. However as the evening went on the 80s began to reveal their true face .....



7 Puddlestinkers\*\* can be trusted and they know their stuff. Glenfiddich would mask the taste. It could not have been easier. The Editor liked a dram or two. The word spread quickly and everyone gathered around to watch, not sure how to react... but there were many who would benefit ...

6 Embarrassing photos! Paparazzi's greatest dream! ... and the Editor was close by... But the 80s were a loyal bunch. One for All and All for One and they were influenced by the practices of the Bangor Mafia, a product of the 70s. It was clear: no photo should reach the newsletter. So after the golf came the plot ...

... Listen, Sinclair. We have no choice. The Editor has to be silenced. You are the only one who can get this done. Anyone else will look suspicious... if you think it is necessary...but you never know what she may do if she survives ...



At last! No more printing and postage costs. This newsletter is costing me an arm and a leg!

... am I going to be that lucky? I will be able to use the Forbidden Word as many times as I want!

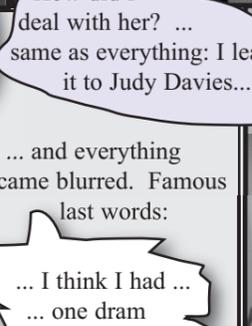
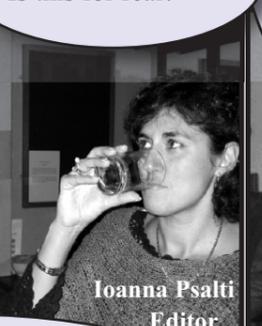
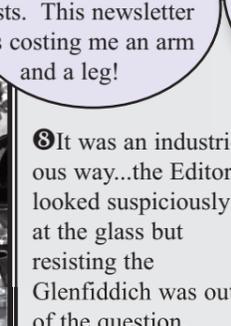
... no more nagging?! ... Is this for real?

... if this works you shall have an easier year, love.

No more chasing up things for the newsletter?

How did I deal with her? ... same as everything: I leave it to Judy Davies...

I am afraid I am biased ...I do not know her but ... ever since Greece beat Portugal at football ...



8 It was an industrious way...the Editor looked suspiciously at the glass but resisting the Glenfiddich was out of the question.

... to tell the truth I was getting fed up myself. I lost count of the times I had to resend my snippets. She kept on losing them! ... and NO more proof-reading! George will be so glad when I tell him!

... it should work about ... now ...

9 ... and everything became blurred. Famous last words:  
... I think I had ...  
... one dram too many...

\*Forbidden word: Can be found elsewhere in the newsletter.  
\*\* Scottish term for those coming from certain areas beyond Aberdeen

'Tis no ouzo, lass! NO ICE, NO WATER and has to be the right temperature. So you warm it up like this ...

Mollusc's Rescue Team:

The Web, the SOS & The Royal Mail

Well-wrapped in a plastic bag and padded with newspaper, a mussel arrived alive and kicking by first class post at the labs in February 2007. Receiver: Mike Roberts of the SOS. Sender: Lynda Thornton, from Shropshire,

who felt terribly guilty when she discovered the live mussel amongst the shell collection of her 5-year old son, Alastair after their holiday in Anglesey. Linda contacted an Anglesey website for advice and Mike volunteered for the rescue operation and dropped it off at the mussel fishery at Red Wharf Bay. When Daily Mail dedicated almost a page to the lucky mollusc. I think I would like to be reborn as a mollusc!

MORAL OF THE STORY:  
It takes more than an Editor to bring this newsletter to you. Please support SOSA in any way you can.

## Loving Home To Journals And Welcoming Closer Contacts

After some small logistical problems the JMBA collection of vol. 57 1977 to vol. 83 2003 is now in our library. This will be a great asset to the institution, which I am sure will be appreciated by many researchers over the coming years.  
Thank you very much Barry Paine and The Bridge.  
Sincerely  
Neil Duncan.  
Investigador del IRTA

Barry Paine's enormous journal collection (advertised in our last issue as homeless!) is at last lovingly used in its new home, the library of the Catalonian Aquaculture Centre of IRTA\* (Research and Technology Institute of Food and Agriculture), locally known as *IRTA Sant Carles de la Rapita*. The Centre now welcomes all approaches to establish closer contacts and research collaborations with the School of Ocean Sciences and its Alumni.

The Aquaculture Centre has grown over the past 7 years, sited on the Ebro Delta in the south of Catalonia, Spain. Consolidating research on technologies to optimise and control aquaculture production of shell- and

finfish, the Centre has attracted an experienced research staff, taking a multidisciplinary approach combining practical aquaculture zoo-techniques and molecular and biotechnological approaches to research programs.

Research is focused on monitoring shellfish culture and developing biotechnologies to monitor and improve shellfish culture - in particular of the carpet shell (*Tapes decussatus*) Clam and Japanese clam (*Ruditapes philipinarum*), Kingcrab (*Maja sp.*), the endangered fresh water mussel *Margaritifera auricularia* - and finfish culture, whether for new species like the common dentex, sole and corvine or established species such as seabream and eels.

The Ebro Delta, where the centre is situated, has the largest production of shellfish in the Spanish Mediterranean and the second largest in Spain. The Aquaculture Centre is contracted to monitor the quality of the water and the product, mussel and oyster, and a research group for the ecology of fresh water resources, particularly of the River Ebro, has been established recently.

### For current SOS staff, student or alumni willing to link with IRTA

#### STUDENTS:

IRTA Sant Carles de la Rapita has a well established mechanism for students to gain work experience in the centre. Students can improve their curriculum vitae by completing a voluntary working period of 1-6 months. These work periods have led to students staying for PhD studies.

Contact Neil Duncan: [Neil.Duncan@irta.es](mailto:Neil.Duncan@irta.es)

#### RESEARCH POSITIONS:

Over the past 3 years IRTA Sant Carles de la Rapita has employed 10 new researchers. We welcome people interested in joining our team

and having a good curriculum vitae. Although no position is currently open, we are interested in a researcher with experience in bivalve ecology and culture. Contact the Director at [Dolors.Furones@irta.es](mailto:Dolors.Furones@irta.es)

#### BUSINESS OPPORTUNITIES:

IRTA Sant Carles de la Rapita has world class facilities for completing research contracts on Mediterranean species. In particular we have been working with feed and pharmaceutical companies. If you are interested in discussing your ideas with our Business Manager contact Cristobal Aguilera: [Cristobal.Aguilera@irta.es](mailto:Cristobal.Aguilera@irta.es)

The JMBA collection may be an important contribution to the library of this centre but links involving students and research can bring even greater contributions to both IRTA and the School of Ocean Sciences.



Aerial view of the IRTA Aquaculture Centre with its 1,799m<sup>2</sup> of laboratories and administration and, 3,833m<sup>2</sup> of tank and experimental facilities with 23 independent re-circulation systems in an environmentally controlled vivarium and flow-through systems in shaded greenhouses.

\*IRTA is a group of world-class research and development centres funded by the Catalonian Government to develop technologies to improve plant, animal and aquaculture food production.

## CORDAN Suggests:



**BIOS**  
BERMUDA  
INSTITUTE  
OF OCEAN  
SCIENCES

The Bermuda Institute of Ocean Sciences (BIOS), was founded in 1903 by scientists from the universities of Harvard and New York, and the Bermuda Natural History Society as the Bermuda Biological Station for Research (BBSR) in biology and zoology. It was incorporated in New York in 1926 as a U.S. nonprofit organisation and by 1932 the Bermuda Government and the Rockefeller Foundation joined forces to provide a modest endowment and the facilities at its present location in Ferry Reach, St. George's. Since then it has grown to a world-class scientific and educational institute focusing on marine ecosystems, ocean/atmospheric interactions and ocean health, and their influence on man's habitat and health.

The BIOS Bermuda Environmental Quality Program provides environmental monitor-

ing services for the Government of Bermuda and offers facilities for pure and applied research work, including monitoring atmospheric emissions and potential terrestrial and marine environmental impacts from a municipal solid waste incinerator; investigation of atmospheric particulate matter, mercury and polycyclic aromatic hydrocarbons (PAHs) from local sources and from long-range atmospheric transport; occurrence of pesticides, pharmaceutical chemicals and fuel-derived hydrocarbons in groundwater; and impacts of sewage disposal on local coral reef communities.

The opportunities to work, volunteer and study at BIOS all year round (from a few weeks up to a number of years) include graduate summer courses (fellowships usually available), the volunteer intern (free board and lodging) and graduate intern programs. Salaried positions for technical staff are often available.

For details: <http://www.bios.edu>

CORDAN Contact (see p6): **Andrew Peters,**  
Principal Investigator of the Environmental Quality Program

## Schlumberger

Schlumberger, the leading company in oilfield services, has 25 R&D facilities worldwide with emphasis on developing innovative technology, and invests more in R&D each year than all other oilfield services companies. It was founded in 1927 by the Schlumberger brothers who invented wireline logging as a technique for obtaining downhole data in oil and gas wells. Today Schlumberger continues to build on the

industry's longest track record for providing leading edge E&P technology to develop new advancements from reservoir to surface. Since its founding, the company has consistently invested significant time and money on research and development as a long-term strategy to support and grow their technology leadership.

Schlumberger maintains strong links with universities offering student internships either for a year or over the summer period.

For details: <http://www.slb.com/careers>

CORDAN CONTACT (see p6): **Christopher Partridge,**  
NSG Segment Personnel Manager, Drilling & Measurements

## SPOTLIGHTS



Tim Harvey  
(BSc MarBiol/  
PhysOcean 1998 )  
and friend

© Tim Harvey

## Alumni-in-Business Project

This pilot project is seeking to develop knowledge transfer activities with our alumni communities. It is a collaborative venture between Bangor and Aberystwyth Universities and Swansea Institute of Higher Education. Each institution is hoping to build up networks and identify mentors within their own alumni cohort for the benefit of the alum-

ni themselves, the student body, and the business and research communities. Ocean Sciences has a strong, established alumni network, and we hope to build on this with a new network focusing on knowledge exchange activities.

This project is funded by the Welsh Assembly Government and the European Social Fund.

Find out how you can participate: [www.bangor.ac.uk/alumni/KnowledgeExchange](http://www.bangor.ac.uk/alumni/KnowledgeExchange)



YR UNDEB  
EWROPEAIDD  
Cronfa  
Gymdeithasol  
Ewrop  
AMCAN I



EUROPEAN  
UNION  
European  
Social  
Fund  
OBJECTIVE I



Llywodraeth Cynulliad Cymru  
Welsh Assembly Government

## Publications by SOSA members

Two paperbacks written by **Teong-Jin Tan** (BSc MarBiol/PhysOcean 1983).

For ordering: [blue.mountain.press@gmail.com](mailto:blue.mountain.press@gmail.com) or  
[www.bluemountain.lifelogger.com](http://www.bluemountain.lifelogger.com)

### The Chinese Malaysian Contribution

The book tells the story of the Chinese in Malaysia from the earliest times until the present day.



### Travels in the Malaysian Rainforest

A travelogue, the book looks at the secrets, legends, people and fascinating wildlife of what Charles Darwin described as "one great, wild, untidy, luxuriant hothouse built by Nature for herself". The book took five years to research and write.

Have you just published  
a general interest book?

Send the book outline and the cover  
image to [ioanna.psalti@scarlet.be](mailto:ioanna.psalti@scarlet.be)