

# Dr Bob Earll

## Coastal Management for Sustainability

Environmental Consultant & Event Organiser  
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### Resume Curriculum Vitae

January 2007

### Contents

**The full curriculum vitae** (26 pages) includes yearly work breakdowns from 1993 to present and many customised topics including:

**Specific areas of expertise: Those included:**

- Information in the coastal zone
- Marine Conservation
- ICZM
- Public participation
- Conferences and workshops
- European work
- Oil pollution
- Aquatic litter pollution
- Marine biology

Please contact me if you want more specific details of my experience

# Dr Bob Earll

## Coastal Management for Sustainability - CMS

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### EDUCATION

- PhD Bivalve eco-physiology, Manchester University 1975
- B.Sc Zoology [2.1] Hull University 1970
- 'A' Level Chemistry, Botany, Zoology

### EXPERIENCE

- Involved in ecological and environmental policy, management and research and for 36 years.
- Environmental Consultant 1993-2007: Director Coastal Management for Sustainability CMS – that organises a dozen conferences a year, including the Coastal Futures series of conferences and CMS Emailing Service
- Marine Conservation Society MCS 1978 – 1992: Head of Conservation MCS 1988 – 1992, General Secretary 1984-88, Project Co-ordinator Underwater Conservation Society [1978 - 84]
- Contractor / Project leader Nature Conservancy Council for seven benthic surveys [1980-86]
- Lecturer II, Leeds Polytechnic 1976-78 Schools of Health and Applied Science and Education; B.Sc and B.Ed courses. Teaching 1974-75 Bury Girls Grammar School, Bolton Institute of Technology.
- Survey leader ITE Shetland sublittoral survey 1974
- NERC Post-Doctoral Research Fellowship 1975-76.

### ACHIEVEMENTS

- Organised over 120 conferences and consultancy projects [1993-2007] for a very wide range of organisations (1993-2007 including: CoastNET, Crown Estate, DETR, DTLR, DCLG {ODPM}, DfT, Defra, CIWEM, Greenpeace, Natural England[English Nature], Environment Agency, JNCC, Maritime & Coastguard Agency, NERC, NCEAG, IEEP, the National Aquatic Litter Group (1994-1998), Talisman Oil, Scottish Natural Heritage, Devon County Council, Dorset County Council, Eastern Sea Fisheries Joint Committee, Wildlife Trusts & WWF-UK, WWF-Canada, AFEN-UKOOA and many others.
- Organised 15 Coastal Futures – Reviews & Future Trends conferences 1993 – 2007 conferences
- Co-founder of the Marine Conservation Society 1984 from UCS 1978 Organised 13 Marine Conservation Society annual conferences and many smaller meetings
- Co-founder of the Marine Forum 1987, the Shark Trust (1997 – Patron), National Aquatic Litter Group (1997-)
- Oral and written evidence to four Parliamentary Committees
- Over 60 publications and reports on marine conservation and marine biology
- Active involvement in the 1987 and 1990 North Sea Ministerial Meetings
- Description of the seabed habitats and communities of the UK using diving to survey marine life around UK. Editor Oxford University Press volume on sublittoral ecology.
- Origination and project development / management of many MCS projects including the Coastal Directory, Species Directory, Seasearch, the UK Coastwatch Europe, Coastal Zone Management projects and colour species identification guides.

### PERSONAL

- Married with one daughter.
- Born 9.6.49, London
- Health excellent, Clean driving licence
- Hobbies: SCUBA diving, watching sport, walking

## Work undertaken in 2006 by CMS – Bob Earll

### Summary

During 2006 CMS were involved in 19 projects including 9 conferences with CIWEM, 4 CMS Coastal Futures conferences, and 5 contracts, mainly involving meetings for other organisations including Defra, Cefas, CCW, The Crown Estate and Natural England. The CMS emailing advertisements business developed along with the website including on-line booking. Over 2700 delegate attendances at CMS run events were recorded 2006; Sponsoring organisations including many Government Departments.

**Coastal Futures 2006** 25 & 26 January CMS London 302 delegates 6 Sponsors 24 papers Conference outputs: Delegate notes and presentations

**World Wetlands Day Conference 2006** 1 & 2 February CIWEM London Wetlands Centre and SOAS 197 delegates 10 sponsors Focus on the Vision for Wetlands project. Facilitated debate about key questions: Structured responses to questions tabulated: report prepared\*

**PPS25 – Developing Guidance** March 2006 CIWEM London A conference run with CLG [was ODPM] on their consultation on developing guidance; 227 delegates; 8 sponsors. Outputs: delegate notes and presentations; structured delegate feedback on consultation questions posed by ODPM.

**The Interaction between Socio-Economic and Ecological Objectives** Contract with Cefas Defra to CMS Bob Earll with support from Susan Gubbay Workshop 29 March 2006 – 89 delegates; Outputs report on the project theme, and supporting texts including Sector statements for 16 Socio-economic sectors covering their high level delivery statements (50pp) and a report on the project covering how sustainable development is delivered across environment and socio-economic areas (55pp).

**Integrated Urban Drainage** 10 May 2006 CIWEM London 226 delegates 10 sponsors 11 papers This conference was organised with Dr Norman Lowe Conference outputs: Delegate notes and presentations; report and delegate feedback.

**WFD Environmental Standards – Progress and Implementing WFD** 8 June 2006 CIWEM London 186 delegates 6 sponsors 9 papers Structured UK briefing on WFD progress by UKTAG team, reps from EA, SEPA, Defra. Delegate notes and presentations

**The Marine Bill** 15 June 2006 CMS London 160 delegates 4 sponsors 23 papers Conference outputs: delegate notes and presentations; interest analysis table

**Catchment Management** conference July 2006 CIWEM London; 190 delegates; 7 sponsors 11 papers. A multi-sectoral view of catchment management. Conference outputs delegate notes and presentations

**Marine Aggregate Levy Sustainability Fund** conference September 2006 Southampton a contract fro Defra through Cefas; 3 days, 29 speakers, and 12 exhibitors, 130 delegates at National Oceanography Centre and the Southampton University

**Highly Protected Marine Areas workshop** – A Susan Gubbay contract for CCW – RE & CMS Lead and facilitated interactive workshop [Sept 21<sup>st</sup>] with 30+ delegates; Bangor Report to CCW for Welsh Assembly Government

**European Maritime Strategy** conference October 12<sup>th</sup> 2006 London CMS - Coastal Futures Sole sponsor: Department for Transport, with EU Speaker; 138 people; outputs presentations and delegate notes; structured delegate feedback

**Groundwater Conference** – Launch of EA Guidance on Groundwater 17 October 2006 CIWEM 160 delegates, 3 sponsors conference outputs delegate notes and presentation; structured feedback to EA for consultation.

**Mapping European Seabed Habitats** MESH contract with Natural England to CMS; workshop [Oct 19<sup>th</sup>, London 41 delegates ]; Output: Report on workshop including an assessment with case studies of the role of seabed habitat mapping lead author: Susan Gubbay

**Preparedness for Extreme Flooding** November 8<sup>th</sup> CIWEM London Delegates lead by Defra and the Environment Agency; delegates 194; 3 sponsors. Outputs: delegate notes and presentations; structured delegate feedback and report.

**Periodic Review 2009 November 16<sup>th</sup>** 2006 CIWEM London 151 Delegates, 5 Sponsors. This conference was organised with Dr Norman Lowe; Outputs: delegate notes and presentations; structured delegate responses and report

**Farming, Water and Environment** Nov 22<sup>nd</sup> 2006 CIWEM London 164 Delegates 2 Sponsors. This meeting supported by ADAS looked at role of advice in this area. Conference outputs: delegate notes and presentations; report on delegate responses in 2007.

**Climate change and the Marine Environment** Nov 30<sup>th</sup> 2006 CMS / Coastal Futures 142 Delegates 3, Sponsors: Cefas, MCCIP, Met Office and WWF; Conference outputs: delegate notes and presentations; structured delegate responses

**Sea User developer Group:** During the early part of the year Dr Earll supported the work of the SUDG.

**CMS Emailing Service:** Over 180 adverts were circulated for a wide variety of organisations to the CMS emailing group – some 4000+ contacts.

\*The outputs of the conferences are held on the CMS website [www.coastms.co.uk](http://www.coastms.co.uk) in the conference folder called 'reports and outputs'.

## **Work undertaken in 2005 by Bob Earll / CMS**

**Coastal Futures 2005** January CMS London 280 delegates 24 papers 5 sponsors Keynote presentation by Eliot Morley Defra Minister and Charles Clover Telegraph Environment Editor

**World Wetlands Day conference** Jan 31<sup>st</sup> and Feb 1<sup>st</sup> CIWEM London Wetland Centre and SOAS 200 delegates 9 sponsors 7 workshops and 6 plenary speakers

**Marine Habitat Restoration and Recovery** February CMS for The Wildlife Trusts re Aggregate Levy Funding 100 delegates London 9 plenary speakers and final discussion. 12 page Post conference Briefing Edited by R.E.

**Participation and the Environment** March CIWEM 100 delegates 4 sponsors Market place style 17 presenters and two plenary sessions; Delegate notes

**Strategic Environmental Assessment and the Water Industry** May CIWEM 160 delegates 4 sponsors Style: plenary and final discussion – outputs – Conference Report and Delegate views

**Sustainable Urban Drainage** June CIWEM 120 delegates 4 sponsors plenary and final discussion – outputs – with Norman Lowe. Outputs: Conference Report and delegate views

**Marine Spatial Planning workshop** June Defra contract ABPmer consortium Liverpool 2 days workshop style short presentations and q&a – information collection 80 delegates

**Marine Spatial Planning** Communications in general and two workshops – June : Liverpool (75 delegates) (fact finding – testing i.e. emailing; presentation of ideas etc); London : September (80 delegates) – presentation of results, review of project

**Marine Aggregates Research conference** July Defra Marine Aggregate Levy Sustainability Fund 140 delegates with 4 sponsoring organisations

**Catchment Sensitive Farming and diffuse pollution** July CIWEM 200 delegates 3 sponsors plenary and final q&a; Delegate notes and presentations

**Defra Presidency conference CAP & WFD interactions** Sept CIWEM 140 delegates (100 Europeans) 2 days Ministerial and European VIP's plenary and q&a Thames evening reception Elliot Morley

**Soil and Water interactions** October CIWEM 110 delegates 4 sponsors plenary and final discussion.

**English Nature** Information collection on potential offshore marine SACs. With Sue Gubbay. Design and Facilitation of workshop and questionnaire. Report prepared (20 delegates) Peterborough

**Marine Bill** October CMS 280 delegates with 5 Defra speakers – 5 sessions with short presentations and q&a 5 sponsors

**Hydromorphology and WFD** November CIWEM 140 delegates 2 sponsors plenary presentations and final q&a

**Regulation and the Water Industry** – Key changes Nov CIWEM 120 delegates 2 sponsors – even 3 sessions with q&a after each session. With Norman Lowe

**Facilitated the work of the Sea users and Developers Group** during 2005 from inception to agreement of terms of reference – particular focus on the Marine Bill

**CMS Emailing Service:** Direct mailing to 4000+ marine and coastal contacts

## **Work undertaken in 2004 by Bob Earll / CMS**

**Coastal Futures 2004** London January 21-22 London 2004 The 12 London conference – a sell out – with guest speakers Jon Lien from Canada & Anne Ragbourg from Denmark. 20 speakers covering a wide range of coastal and marine issues.

**World Wetland Day** Feb 3<sup>rd</sup> 2004 CIWEM London 230 people attended two days of events including a visit to the London Wetland Centre, the launch of the LIFE in UK Rivers project and the WWD 2004 conference.

**Ports and the Environment Feb 18<sup>th</sup>** 200 delegates attended one day conference sponsored by Department for Transport and English Nature with presentations covering a wide range of port environmental issues. Port Environmental Information project – content circulated on CD and website.

**Water Framework Directive** March 3<sup>rd</sup> 170 delegates attended a one day CoastNET conference which provided both a briefing to the WFD as well as a detailed look at how the WFD will impact upon the estuarine and marine environment.

### **Other work**

- Speaker: Environment Agency Research workshop on the challenges posed by climate change; talked on issues affecting marine and coastal environment.
- Audit and proposals for the continued development of the WWF-UK & Wildlife Trusts Joint Marine Partnership. 45 pp.
- Facilitated Cardiff Biodiversity conference for Defra, European Wildlife Division June 2004
- Presented to the Water Environment Board of the Environment Agency on developments in marine and coastal policy

Further conferences completed in 2004 include:-

May 5<sup>th</sup> **WFD & Diffuse Pollution CIWEM**

June 2<sup>nd</sup> **Coastal Communities CoastNET**

June 23<sup>rd</sup> **CSOs CIWEM**

July 13<sup>th</sup> **Integrated Catchment management CIWEM**

Sept 8<sup>th</sup> **An Introduction to Participation** – with Dialogue Matters

Organised, prepared and presented at a one day training course introducing participation to environmental managers.

October 6<sup>th</sup> CoastNET Conference **Developing management, monitoring and indicators to deliver the ecosystem approach** 120+ people SOAS, London Co-ordinated initial presentations setting the scene and presented introductory paper. Looked at the challenges and linkages in current work. Identified a range of key issues through audience involvement.

October 20<sup>th</sup> CIWEM conference in conjunction with Defra on the consultation '**Making space for water – towards a new Government strategy for flood and coastal erosion risk management in England**'. 200+ delegates 6 sponsors an event run in very close conjunction with the Defra Flood Management Strategy Unit.

November CIWEM Groundwater conference 140 delegates and 4 sponsors

December CoastNET conference Dynamic coasts conference

## 2003 Work undertaken in 2003 by Bob Earll / CMS

### Notable developments

- 10 major conferences – 2 involving Ministerial presentations
- The continued development of CD Rom products building information sources cumulatively
- The start of the formal use by clients of CMS Emailing Services to circulate their information – 120 clients.

### Conferences

**Coastal Futures 2003** 2 day conference January 22-23<sup>rd</sup> Ministerial presentation by Elliot Morley 260 delegates Main themes high level policy, putting concepts into practice (the ecosystem approach and marine spatial planning) and spatial allocations and designations: CD produced in 2003 covering the past four conferences with 150 substantive contributions.

**World Wetland Day Feb 4<sup>th</sup>** organising conference for CIWEM; 120 people attended a very successful event at the London Wetland Centre

**Biodiversity and Aggregates March 6<sup>th</sup>** – CoastNET Conference in partnership with the Wildlife Trusts. Produced the post conference briefing highlighting 10 key areas for joint collaboration. Produced the conference CD accessing key organisations, 30 key publications and other references.

**Ports & Environmental Information** for DfT one day workshop with port environmental interests – multi-agency looking at the process and content for a port environment information system. CD produced accessing information provided by partners on port environmental information including: organisations, issues, legal aspects and encyclopaedic reports. Conference planned Feb 2004 with DfT and English Nature as partners. *Ongoing*.

Feb 13<sup>th</sup> Facilitating one day workshop on **cumulative effects** in the marine environment for CCW and Oakwood Environmental, Chester.

**The Revision of the Bathing Water Directive – May 15<sup>th</sup>** one day CIWEM conference

**Conservation of Marine Biodiversity - What needs to change?** CoastNET June 3<sup>rd</sup> Interactive event 90 delegates – breakout groups working on key issue areas identified by an audience mapping process. 9 groups reported back on a wide range of issues; pre-meeting analysis and briefing on successes and failures – post conference briefing structured reports on key issues identifying targets, barriers and solutions.

**European Flooding – Managing the Risk** – a 2 day CIWEM conference with the Environment Agency and European Water Association. June 17-18<sup>th</sup>

**Living with the Sea** – One day end of project conference – contract for English Nature / LWS team Greenwich Maritime Museum July 2004; organised the conference.

**Spatial planning in the coastal & Marine Environment** CoastNET October 1<sup>st</sup> 2003; Completed 55 page briefing on the component parts of spatial planning.

**Water Framework – Ecological Quality – costs and benefits** CIWEM Nov 12<sup>th</sup> 2003, London – 250 people attended a sell-out conference

**Mitigation – is it working: steps towards best practice** CIWEM Nov 20<sup>th</sup> 2003 London

### Consultancy

#### Technical editor / reviewer/ examiner

- Market opportunities EOS input to coastal markets – for HR Wallingford
- Climate change and Biodiversity monitoring – Just Ecology [Defra – Scottish Executive]
- PhD thesis on managed realignment and public perception – University of London

## 2002 Work completed during 2002 by Bob Earll / CMS

### Notable developments

- 9 major conferences – 4 involving Ministerial presentations
- The continued development of CD Rom products building information sources cumulatively
- The start of the formal use by clients of CMS Emailing Services to circulate their information – 30 clients.

**CMS 2002** A two day conference January 2001 – 260 delegates - speakers covering 20+ topics ranging from port development, ICM, Common Fisheries Policy, consents policy, nature conservation, renewable energy, the Water Framework Directive etc. Keynotes were given by Martha Holmes BBC and John Farnell of the EU Fisheries Directorate. Preparation of the meeting report and CD ROM for delegates.

**DTLR conference on Modern Ports – Facing the Future** A one day conference in February 2002 in London organised for DTLR to promote and help develop their policy to the port industry 225 delegates attended. The Minister David Jamieson gave the keynote address.

**Managing the Coastal Zone – Sharing Best Practice** – A one day workshop February 2002 organised by CMS on behalf of CoastNET. This was designed to pull together a wide range of material on people management skills and techniques in the coastal zone. CD-ROM output will provide structured access to over 75 reports and key bodies of knowledge.

**Condition monitoring workshop – marine features** A three day workshop (March 2002) to support the development of guidance by an interagency group on condition monitoring for marine features of SACs. 21 members of agency marine staff. Contact for JNCC

**Coastal Futures Scotland 2002 - Edinburgh 19-20th June** - sponsored by Scottish Coastal Forum, SEPA, SNH, RSPB, WWF-Scotland

**Adapting to Climate Change - Challenges and Solutions CoastNET Conference June 25th** underwritten by WS Atkins, Halcrow, National Trust, RSPB. Prepared a CD merging the information from this and two previous events.

**Information Management for Strategic Environmental Assessment and Regulation in the Marine Environment.** One day CoastNET conference. Oct 16<sup>th</sup> SOAS, London 120 delegates. Underwritten by Hartley Anderson, CEFAS, BGS, UKHO.

**Marine Stewardship and The EU ICZM Recommendation** - A one day conference for Defra. November 14<sup>th</sup> 2002. Prepared stakeholder contact lists for the four countries; organised the event – including refining the functionality of the meeting, undertook analysis of the stakeholder responses and drafted post conference briefing.

**Marine Protected Areas and Oil Pollution** (WWF-Canada) A project to clarify policies regarding the development of MPA policy in the face of rapidly expanding oil and gas development. Involves integrating MPA and Energy policy with the practical application of principles and ICZM management. 2001 -

**National Aquatic Litter Group** - Treasurer - organising the **Making Waves conference** – Mr. Meacher, Environment Minister presented the keynote speech. Preparatory workshop and meetings. Looking at the strategic requirements for aquatic litter work. 2001-

**Photographic Guide to litter in the aquatic environment (CD ROM)** An image based collection illustrating typical litter types to help improve recording - support methodology of protocols - and also illustrate impacts. 2001-02.

**PET - Port Environment Training** – gave three courses to Port Managers from a variety of Ports, including ABP and Tilbury; with Chris Wooldridge of Cardiff University and ABP MER. Liaised with DfT on port environment information system.

**CIWEM** - Work with CIWEM to develop a conference strategy and start work on a series of CIWEM events including World Wetland Day.

**CMS Emailing Service** This service provided by CMS provides instant access for clients to 1250 coastal contacts in relation to news of events, vacancies, newsletters etc. Some 30 clients have made use of this service including UKHO, The Crown Estate, CIRIA, MCS, Irish Sea Pilot Study, Kent County Council, the RYA etc.

## 2001 Work completed during 2001 by Bob Earll / CMS

### KEY IDEAS to be developed and outcomes of this work

- Use of CR ROM technology to capture information and provide continuity to process e.g. Best practice Guide, Dynamic Coast
- Use of CD ROM technology for photographic guides

**Organisation of a wide range of events and process (advice - mentoring) for diversity of clients including** The Wash Forum, CoastNET, AFEN - UKOOA, WWF-UK, WWF-Canada, Maritime and Coastguard Agency, DTLR, Environment Agency, Devon County Council, National Trust, National Aquatic Litter Group and JNCC.

**Events were sponsored and underwritten by:** the Crown Estate, ABP MER, Living with the Sea, RSPB, HR Wallingford, DTLR, The Wildlife Trusts, WWF-UK, WS Atkins, English Nature, DEFRA, Scottish Coastal Forum, Countryside Agency. They involved approaching and working with over 100 speakers from an enormous range of different organisations and all the main coast sectors.

The continued success of **the underwriting process** in event organisation

Developing **Email communication to 700+ contacts** - used in conjunction with the CMS website - career

**CMS 2001** A two day conference January 2001 – 250 delegates - speakers covering 20+ topics ranging from toxic chemicals, ICM, regional fisheries, consents policy, nature conservation, wind energy, the Water Framework Directive etc. A ministerial presentation was given by Chris Mullin then of DETR. Preparation of the meeting report and CD ROM for delegates.

**Wash Forum** Completion of a report on the scientific work undertaken by the Forum members, an appraisal of the causes of the decline of shellfish and bird populations and recommendations for future work. Work with 12 organisations including CEFAS, Eastern Sea Fisheries Joint committee, English Nature, Environment Agency, BTO, RSPB & CEH.

**Dynamic Coastlines** – CoastNET Conference London June 160 people; Organised programme on the strategic and practical aspects of new policy developments. Worked with a wide range of sponsors HR Wallingford, RSPB, ABP Research, Living with the Sea (EN&EA), speakers and chairmen. Outputs include a structured CD ROM on this topic include input from 30+ speakers and delegates.

**Dynamic Coasts - Porlock** (National Trust – October 2001) – A one day field visit to demonstrate the practical outcomes of a dynamic coast policy to coastal practitioners.

**ORCA** Advice to WWF on the preparation for a high level meeting to end the Oceans Recovery Campaign in Edinburgh in October 2001

**Devon County Council** (November 2001) Co-ordinated conference '*Partnership for Action on the Coast*' and consultation on the *State of the Devon Coast Report*. This one day conference explored the importance of the coast to Devon and the need for a partnership approach to coastal management.

**Integrated Coastal Management** – CoastNET conference – A one day conference (October, 2001) that will explore the various solutions available to develop more effectively integrated solutions to coastal and offshore management issues. Mr Meacher the Environment Minister gave the keynote speech to 115 delegates

**AFEN Conference December 2001** To prepare and co-ordinate a major conference to describe the work of the Atlantic Frontier Environmental Network on research and management of the offshore environment. 175 delegates attended. The project undertaken with AFEN and UKOOA

### **Work completed during 2000 by Bob Earll / CMS**

**European Union Fifth Framework Proposals:** Worked on facilitating and developing 3 proposals for the WWF-UK on managed retreat, nutrient pollution in the coastal zone and shipping, oil pollution and risk assessment and management. Liaising with a very wide range of partners in UK and Europe, helping facilitate partner communication, setting objectives and preparing and structuring the proposals.

**Biodiversity Research in the Marine Environment:** Designed and facilitated a one day seminar of marine biological experts as a part of the Nature Conservation Bureau team: A DETR contract. Facilitated mind mapping, break-out groups and report back, prioritisation of research topics and final feedback reports for the entire group.

**Indicators in the Coastal and Marine Environment:** A one-day conference. February (85 people) London. Sponsored by Hyder Consulting, the Environment Agency and Kent County Council. Organised programme, in-house arrangements and report preparation.

**Coastal Management for Sustainability 2000** – 2 day conference: Review of Events in 1999 and Future Trends. 175 delegates. February 2000, London Covering a wide range (20) topics from fisheries to nature conservation, managed retreat to pollution by toxic chemicals. Organised the programme, speakers and all the in-house activities. Completed the production of the proceedings of this conference – *Coastal Futures 2000*

**Wash Forum – 2 day conference on Shellfish – Bird Interactions** within the SAC, 130 people, Co-ordinated the entire event including preparing the programme, pre and post conference briefings, liaising with speakers and the in-house organisation. Liased with major partners including the Sea Fisheries committee, CEFAS, Environment Agency, English Nature, RSPB and BTO

**Inshore Fisheries Training Event** – Wildlife Trusts: A 2 day event Dartington Hall, Devon. Formulated objectives, programme, and administered delegate booking. Facilitated sessions during the event oversaw programme.

**MCA Shipping Litter Contract:** The preparation of a protocol on measuring the litter from shipping in the environment. This has involved developing a protocol – and beach monitoring form, identification guide (digital images + guide text) to enable shipping litter items to be identified, and full guidance notes to be developed. The process has been developed in an open and iterative manner through a series of workshops (London DETR offices) and field visits to Cumbria, Pembrokeshire, the Clyde, Forth, Northumberland and Shetland involving some 35 experts in UK and Europe.

**British Port Industry Training – Environmental Management for Ports** – A two day training event. May 2000. A review with guest speakers of how ports can start to develop an environmental management systems approach. Given in conjunction with Chris Wooldridge, Cardiff University. Liaison with Port Industry re developing training programme.

**Ports, shipping and the Environment** June 2000: A one day conference organised in conjunction with CoastNET. 95 attended. Sponsored by HR Wallingford, WWF, Safetec, and RSPB. Organised speakers and programme (policy, high speed ships, MEHRAS, Management Systems), in-house details. Results to be published in the CoastNET newsletter.

**Putting Sustainability into Practice in the Coastal Environment** A one day workshop organised in conjunction with CoastNET and sponsored by CoastLINK (October). 15 short papers illustrated the range of

approaches now being adopted by a wide variety of practitioners from many sectors. 65 attended. Organised speakers, programme and in-house facilities.

**Southern Irish Sea Information Systems:** Member of the Hyder Consulting Team with specific responsibility for designing the workshop process for launching the information system and undertaking the evaluation. These events (launch and evaluation) were duplicated in Wexford and Pembrokeshire. Project partners were CCW, Pembrokeshire County Council and Wexford Council and the Irish Marine Institute.

**Marine SACs: Partnership in Action.** Contract for **UK Marine SACs / English Nature** 2 day conference (300 delegates) and one day workshop Edinburgh November 2000. The overall conference design, preparing the plan and budget – developing this through liaison with the project officers, publicity launch delegate mailing UK and Europe – use of extensive CMS sector based mailing lists, delegate registration and monitoring, on-the-day liaison and co-ordination.

**ORCA Oceans Summit WWF-UK (2001)** Facilitation for the project team, expert advice to the project co-ordinator, preparation of the key elements of the project-event plan and timetable.

**Talks given** to Greenwich conference & CMS 2000 on *Sustainability and Management Systems*, Shark Trust – celebration of their founding member – Sarah Fowler, The use of predictive systems in marine ecological surveys (Porcupine – Marine Natural History Society, Plymouth Marine Laboratory meeting March 2000).

**CMS 2001 Review and Future Trends:** Developed the programme (26 speakers) for this two day conference (January 2001) covering wind energy, Water Framework Directive, Devolution and Coastal Policy, Regional fisheries policies, nature conservation, pollution and the developing consent regime in coastal waters. Sponsors: ABP, CoastLINK, Hyder Consulting

Gained further **diving experience** in the Red Sea (one week survey of sites with MCS),

## 2000 Work completed during 2000 by Bob Earll / CMS

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Gained further **diving experience** in the Red Sea (one week survey of sites with MCS), St. Abbs and Shetland.

## Information Systems in the Coastal Zone

Long term interest in information and the coastal zone. My work often involves assessing data, information and knowledge and then disseminating this in a variety of forms for examples, publications, through workshops and meetings, training or increasingly electronic media including the internet.

- Origination and project development / management of many of the original Marine Conservation Society projects including the Coastal Directory, Species Directory, Seasearch, the UK Coastwatch Europe, Coastal Zone Management projects and colour species identification guides.
- Project proposer and supervisor for the original versions of the Coastal Directory (1984 & 1986), that was later developed by the North Sea Task Force, JNCC and now by CIRIA

**In 1999 my experience includes: -**

- Organised a one day conference in January on ***Information and Integrated Coastal Zone Management*** – supported by CoastNET and ABP Research and Consulting. This looked at the links between developing (mainly IT) technologies and their application to routine ICZM issues (January 1999).
- Completed English Nature – JNCC Report on ***Monitoring and Reporting on Marine Special Areas of Conservation*** – the outcomes of a workshop that included UK and European input to this issue. Helped design the workshop, steered the event and facilitated key parts of the workshop proceedings. (1998-99). The edited report considered both the policy and research dimensions in both the UK and European context.
- Completed the MCA research contract (426) on ***The measurement of oily waste and garbage disposed of into the marine environment by shipping.*** (see 1998) The report was released in October 1999. This related to the use of data and information and the critical assessment of methodology to produce indicators for a wide range of management functions.
- **Oil pollution and dolphins in the Moray Firth: Guidelines to inform oil spill contingency planning** (May 1999) *Funded by Talisman Oil and Scottish Natural Heritage.* Designed the workshop event that was highly interactive. This was based around a series of scenarios that enabled expert knowledge to be used to test and develop contingency planning guidelines.
- ***Using Marine Biological Information in the Electronic Age*** (July 1999), Marine Biological Association & *MarLIN*. Administered the meeting, helped with the design and in-house admin, facilitated the break-out workshops. Prepared the programme. Organised sponsorship from The Environment Agency and ABP Research and Consulting.

I have also worked on research development projects on ICZM with NERC and ESRC and currently with DETR (Biodiversity).

## **Integrated Coastal Management**

- Direct involvement with many of the key national stakeholders, through the conferences and meetings I have organised. Attended four National DETR Coastal Fora meetings.
- Facilitated Dorset ICZM- European Strategy meeting May 1999 (Dorset County Council).
- Organiser of the National Coasts & Estuaries conference that covered the issue of the future of the Estuaries initiative. Edited and prepared the conference discussion paper on the issue. Organised four NCEAG conferences 1996-99.
- 1995 Organised a one day meeting on 'Overlapping plans'
- Co-ordinated NERC-ESRC workshops at Dartington Hall, Devon (2 workshops), on the development of a research programme for integrated coastal management. This involved looking at the shared interests of the research and user community.
- Best Practice Guide to Coastal Zone Management Planning Member of the consortium lead by Nicholas Pearson Associates which undertook work on this Department of the Environment contract. My main role was to advise on the processes of consultation and organise three regional workshops [Bristol, Leeds & London], a national seminar in London and consultation meetings with the fishing industry and Wildlife Link.
- Gave oral evidence to the House of Commons Environment Committee that reviewed. Member of the Marine Conservation Society project management group, which pressed for changes to integrated coastal management 1988-1992.

## **Public Participation**

**Public participation projects:** Organised and administered programmes of public participation projects for the public and sports divers. These projects have included:

- Coastwatch Europe UK (with Gareth Rees & Kathy Pond)
- Seasearch, with the UK JNCC, a survey of underwater habitats,
- A variety of projects (>10) on multi-species, single species and habitats on the shore and underwater for divers.

**Fora at a variety of geographic scales:** I was involved with the development of a number of successful local voluntary marine protected areas that took a multi-sectoral approach to management. This approach was extended to regional, and national scales (Marine Forum) and I have also had direct experience of European environmental work through the work of Sea at Risk at 3 North Sea Ministerial Meetings (1987, 1990, 1994).

I am familiar with

**Public campaigns:** As Head of Conservation at the Marine Conservation Society I was involved with the project co-ordination of a wide range of high profile public projects, ranging from pollution to nature conservation topics. This involved work with publishers (The Good Beach Guide), the media, politicians, and public.

## **Training**

Involved with training and teaching at a variety of levels for 30 years including taught and experiential courses including:

- Degree courses at Leeds Polytechnic (2years)
- Marine life and ecology courses for the Marine Conservation Society
- Taught lectures and interactive/ participation sessions for a wide variety of organisations since 1994 including Zeneca & ICI, Oil Spill Response Limited, Sea Fish Industry Authority, London School of Economics, and Medcoast training course.
- Practical environmental management for the UK British Ports Industry Training (1998)

- Planning and management workshops for the Marine Conservation Society and the British Psychological Society – planning for expert groups.
- Public lectures on a wide variety of subjects

### **Conferences and Workshops**

I have a wide experience of organising effective meetings, for:

- information dissemination,
- consultation,
- information collection,
- consensus building, through active involvement,
- networking and action centred networks
- planning, for organisations and expert groups and,
- training

These initiatives have led to the formation of three organisations that cover *multi-sectoral* approach to environmental issues, including the Marine Forum, the National Aquatic Litter Group and the Shark Trust (European Elasmobranch Society).

Since 1993 I have organised the following:

- Department of Environment, Transport and the Regions (1996) consultation meetings on Best Practice in Integrated Coastal Management.
- Greenpeace (1997) conference '*Denizens of the Deep*', on the exploitation of deep sea resources
- The Institute for European Environmental Policy (1998), Structure Funds and Sustainable Fisheries – consultation seminar.
- The Natural Environmental Research Council and Economic and Social Research Council (1997), workshops on future visions for research in the coastal zone.
- The National Aquatic Litter Group (1994-1998), conferences and workshops (10 days) covering measurement methods, management approaches, shipping, sewage pollution, Local Authority involvement.
- National Coasts & Estuaries Advisory Group (1996,1997) two conferences on integrated coastal management
- Five Marine Environmental Management Reviews of 1993 – 1998 conferences, 100 papers and 5 sets of proceedings.
- Also one day conferences on the Precautionary Principle, Designing and Building Dynamic Coastlines, Overlapping plans and Shark conservation.
- I have been involved with organising a very large number of conferences, workshops etc for the Marine Conservation Society 1978-1992, including 13 annual conferences.

### **EIA**

My experience of EIA has been mainly focussed at the strategic and policy level including:

- Salmonid fish farming in the marine environment (1986-1992)
- Sewage policy in the UK (1990) written & oral evidence to House of Commons Environment Committee
- Wessex Water Waste Water Treatment Policy (1996-1997)
- Toxic chemicals TBT and dichlorvos
- Major incident response and oil pollution policy, contingency planning and management (Wildlife Trusts) 1997.
- Development of cradle to grave environmental management, including EIA, e.g. Wessex Water.

## Conference organisation

Considerable experience of organising conferences and workshops for a wide variety of clients. This includes the effective design of the meeting in order to achieve the desired outcomes and involvement, as well as the in-house arrangements and acting as editor and author for various proceedings. In two instances new networks and organisations have been developed and formed as a result of these meetings e.g. the Shark Trust and the National Aquatic Litter Group. Since 1993 I have organised the following meetings:

- Department of Environment, Transport and the Regions (1996) consultation meetings on Best Practice in Integrated Coastal Management. 3 regional workshops for the Best Practice Guide for Coastal Zone Management Planning in Bristol, Leeds & London, and a national review conference.
- Greenpeace (1997) conference '*Denizens of the Deep*', on the exploitation of deep sea resources
- The Institute for European Environmental Policy (1998), European Structure Funds and Sustainable Fisheries – consultation seminar.
- The Natural Environmental Research Council and Economic and Social Research Council (1997), two workshops on future visions for research in the coastal zone.
- Five conferences (including workshops) (1994-1998) on litter pollution in the aquatic environment, , and workshops covering measurement methods, standardised approaches, management approaches, shipping, sewage pollution, Local Authority involvement. This conference sequence has led to the **formation of National Aquatic Litter Group**
- National Coasts & Estuaries Advisory Group (1996-1998) three conferences on integrated coastal management
- Five Marine Environmental Management Reviews & Future Trends conferences (1993 – 1998): 100 papers and 5 sets of proceedings.
- Also one day conferences on the Precautionary Principle (2), Designing and Building Dynamic Coastlines and Overlapping plans. A conference in 1994 on Shark conservation lead to **the formation of the Shark Trust and European Elasmobranch Association.**
- I have been involved with organising a very large number of conferences, workshops etc for the Marine Conservation Society 1978-1992, including 13 annual conferences.

## Europe

Whilst with MCS and subsequently I have worked with a number of European environmentalists and scientists on a wide variety of projects, these have included:

- 1997 Session chairman, speaker (aquatic litter pollution) at the 1997 Medcoast conference (Malta).
- 1996/97 European Elasmobranch Association: Two meetings in Brussels (to visit the EC offices) and Amsterdam with European representatives in relation to the establishment of EEA.
- 1996 Medcoast Training course (Malta, Gozo) covering integrated coastal management and coastal tourism
- 1997 EUCC conference (Lille) on marine pollution: structured outcomes and proposals.
- 1994 Attended Sea at Risk conference (Copenhagen) on North Sea ministerial policy. 1994 Co-ordinated and prepared declaration at Seas at Risk conference on the North Sea, Copenhagen, October 1994: '*The Role of Environmental Charters*'. This included an appraisal of the CERES principles (company performance measured against environmental principles which are audited annually for ethical investment purposes) and the International Chamber of Commerce environmental principles.
- 1991 Presented lecture on the precautionary principle to a Norwegian meeting (Oslo) organised by the Norwegian EPA, this was based on a similar presentation given at conference in Copenhagen.
- 1991 Visited Danish secretariat of North Sea ministerial process to secure MCS observer status for NSMM.
- 1987- 92 MCS member attending Seas at Risk meetings various European venues
- 1987 - 92 Co-ordination meetings for Coastwatch Europe (Brussels, London).

## **Oil industry and contingency planning**

- Preparation of a European Framework 5 bid on oil pollution from shipping – risk assessment and risk management WWF-UK , Cardiff University and European partners.
- Organised consultation process **Talisman Energy and Scottish Natural Heritage** on oil spill contingency planning and cetaceans in the Moray Firth in Inverness (1999)
- Completed an audit of the oil pollution incident indicator for the **Maritime and Coastguard Agency** (1999). This involved proposals for revised protocols, internal capacity building and enhanced liaison with other statutory bodies.
- **Prepared** oil spill contingency plans and emergency planning for **The Wildlife Trusts** (1998) and **WWF-UK** (1999)
- Prepared a series of factsheets for the **Marine Conservation Society** on the Sea Empress oil spill (1997).
- Helped organise Greenpeace (1997) conference '*Denizens of the Deep*', on the exploitation of deep sea resources, especially in relation to west of Shetland.
- Training work for **Oil Spill Response Ltd** (1994-1996) on issues to wildlife interests
- **AMOCO** – advice on workshops and consultations for decommissioning North Sea oil installations.

## R. Earll

## Work Record 1994-1999

### R.Earll Projects 1999

Organised Coastal Management for Sustainability – **Review of 1998 and Future Trends**, London, January attendance 200+. Produced and published the proceedings of the meeting (136pp) as the sixth volume in this series of meetings.

Organised a one day conference in January on *Information and Integrated Coastal Zone Management* – supported by CoastNET and ABP Research and Consulting. This looked at the links between developing (mainly IT) technologies and their application to routine ICZM issues.

Completed English Nature – JNCC Report on *Monitoring and Reporting on Marine Special Areas of Conservation* – the outcomes of a workshop that included UK and European input to this issue. Helped design the workshop, steered the event and facilitated key parts of the workshop proceedings. (1998-99)

Completed the MCA research contract (426) on *The measurement of oily waste and garbage disposed of into the marine environment by shipping*. (see 1998) The report was released in October 1999.

Workshop organised on behalf of the Environment Agency and the National Aquatic Litter Group on Standardised methodology for monitoring beach litter (March 1999).

**Red Sea:** Completed a 10 dive sequence on the popular reefs of the northern Red Sea. Key aspects: underwater habitats, impacts on coral reefs, impacts of tourism, in particular recreational diving, underwater photography. (April 1999)

British Ports Industry Training (BPIT) organised and ran in collaboration with Dr.C.Wooldridge (Cardiff University) a two day training event on **Environmental Management Systems for Ports**. Supported by ABP and the British Ports Authority.

*Fisheries and the Environment – Working on a Common Agenda* Organised, administered, and produced the report on the outcomes of the conference (May 1999), Marine Forum. Worked with the sponsoring organisations: English Nature, Fishing News and WWF-UK.

**Oil pollution and dolphins in the Moray Firth: Guidelines to inform oil spill contingency planning** (May 1999) *Funded by Talisman Oil and Scottish Natural Heritage. Designed the workshop event that was highly interactive. This was based around a series of scenarios that enabled expert knowledge to be used to test and develop contingency planning guidelines.*

**Dorset Coastal Forum** (May 1999) Facilitated and designed a meeting of national ICZM stakeholders that discussed the outcomes of the EU Demonstration Programme in relation to ICZM. The meeting was designed to enable delegates to understand the issues raised by the proposals and encourage their participation in the consultation process. Dorset County Council

*Using Marine Biological Information in the Electronic Age* (July 1999), Marine Biological Association & *MarLIN*. Administered the meeting, helped with the design and in-house admin, facilitated the break-out workshops. Prepared the programme. Organised sponsorship from The Environment Agency and ABP Research and Consulting.

**The Wash Forum: Shellfisheries & Birds in the Wash** – A two day conference on current research and future actions. (April 2000). Facilitated two one day meetings to prepare for the preparation of

the conference including the definition of the conference objectives, programme and introductory brochure and conference plan and budget. For the Wash Forum lead by Eastern Sea Fisheries Joint Committee.

Launch of the Bower's report on the *Economics of Coastal Defence and Biodiversity*. Administered and organised the meeting. (July 1999). Wildlife Trusts and WWF-UK

***Integrated Coastal Management at the Millennium:*** Europe & the UK. (October 1999), National Coasts and Estuaries Advisory Group. Organised and Administered a national conference (London) that looked at the outcomes of the thematic experts work for the EU ICZM Demonstration programme.

***Coastal and Riverine Litter Developing Effective Solutions*** A one national conference, with a ½ day workshop on the importance of perception and behaviour change in relation to litter pollution. Run by CMS in conjunction with the National Aquatic Litter Group. Supported by DETR and the Environment Agency

***Coastal and Marine Environmental Assessment: Putting Theory into Practice*** (November 1999) Organised for the Marine Forum. Arranged and worked with the principal sponsors Posford Duvivier Environment and ABP Research and Consulting. Organised the programme, administered the event. Report in prep.

Prepared ***CMS 2000 review of 1999 and Future trends*** (Sept-Dec 1999) London Feb. 2000

Prepared and organised ***Indicators for Action: Managing and Monitoring the Marine and Coastal Environment London*** (February 2000)

Funding proposals in the **European Union Fifth Framework Programme**. Supporting WWF-UK's work to secure EU FVP funding for 3 projects in relation to Sustainable coastlines and coastal defence (with the Environment Agency and HR Wallingford), Oil Pollution and Shipping (Cardiff University), and nutrient pollution (WWF UK and European partners). This has involved developing clear objectives for the research, and formulating pre-proposal submissions, helping to find pre-proposal partners.

Consultant to Nature Conservation Bureau on project looking at **cross cutting themes in relation to marine biodiversity research programmes**; advisory role in relation to process and content. (Dec 1999 – Jan 2000).

Advised Risk Management Consultants (Abingdon) in relation to various projects.

Developed a Memorandum of Understanding with **CoastNET** for a series of National Conferences in 2000, on Ports, Shipping and the Environment, Sustainability in the Coastal Zone – Putting it into Practice and the Habitats Directive and the marine environment.

Developed Coastal Management for Sustainability (CMS) as a leading organiser of conferences on coastal and marine topics; this included the start of a web-site <http://www.coastms.co.uk>.

## **R. Earll Projects 1998**

Organised Coastal Management for Sustainability – **Review of 1997 and Future Trends**, London, January attendance 200+. Produced and published the proceedings of the meeting as the fifth volume in this series of meetings.

Organised a one day conference in January on *Dynamic Coastlines*– supported by University of Newcastle (Professor Pethick) and ABP Research and Consulting. (January 1998)

Advised Helped design the workshop, steered the event and facilitated key parts of the workshop **on *Monitoring and Reporting on Marine Special Areas of Conservation*** –a workshop that included UK and European input to this issue. English Nature – JNCC (1998-99)

Started work on Maritime and Coastguard Agency (MCA) research contract (426) on *The measurement of oily waste and garbage disposed of into the marine environment by shipping*. Project leader and report author (£20,000). Work on the use of indicators for oil and litter pollution from shipping. Project team comprised of University of Glamorgan and CorDAH consultants.

British Ports Industry Training (BPIT) organised and ran in collaboration with Dr. C. Wooldridge (Cardiff University) the first two day training event on **Environmental Management Systems for Ports**. Supported by ABP and the British Ports Authority. (May 1998)

*Coastal Zone Conference – Estuary Management & Shoreline Management*. (October 1998), National Coasts and Estuaries Advisory Group. Organised and Administered a national conference (London)

*Coastal and Riverine Litter Developing Effective Solutions* A one national conference, with a one day workshop on sourcing aquatic litter pollution. Run by CMS in conjunction with the National Aquatic Litter Group. Supported by DETR and the Environment Agency

Agreement with the Marine Forum to run two one day conferences in 1999; market research completed.

## R. Earll      Projects in 1997

- Organised fourth Marine Environmental Management Review and Future Trends – January 1997 attended, J-J.McGuire from Canada was the keynote speaker (precautionary principle & fisheries)
- Formation of the National Aquatic Litter Group agreed (Feb 1997) as an outcome of momentum built up over three previous Aquatic Litter conferences in 1994-1996.
- Attended European Elasmobranch liaison group meeting in Amsterdam: became vice-president of the UK Shark Trust.
- Co-ordinated NERC-ESRC workshops at Dartington Hall, Devon (2 workshops), on the development of a research programme for integrated coastal management. This involved looking at the shared interests of the research and user community.
- Greenpeace '*Denizens of the Deep Conference*' advised, organised speakers, co-ordinated implementation. Worked with Sylvia Earle re keynote address
- National Coasts & Estuaries Advisory Group annual conference, administered and implemented.
- Spoke on *Litter pollution, Sourcing, Prevention and Measurement* to the Solent Water Quality Conference, Medcoast conference Malta (published paper), and at the NALG conference London.
- Presentations on Environmental perspectives on industrial performance at two Zeneca SHE courses (Cheshire).
- Organised the 4<sup>th</sup> Aquatic Litter conference, Church House, Westminster (Dec.) with the theme of action based networks ( Proceedings published in March 1998)
- Co-ordinated and revised *Guidance on a Standardised Approach to Aquatic Litter Pollution*, (Draft 5), and a one day workshop (December) sponsored by the Environment Agency.
- Prepared a report on major incident response for the Wildlife Trusts. This was a part of a project that also saw the development of a co-ordinated approach to oil pollution prevention policies, contingency planning, and oil spill incident management requirements.
- Completed the report on Wessex Water's Waste treatment policy for Forum for the Future.
- Examined candidate for Ph.D. University of Surrey on marine pollution theme.

## **R. Earll**

## **Projects in 1996**

- Assessment of environment policy and bathing water policy of Wessex Water by Forum for the Future - Jonathon Porritt ( 1996-1997)
- Post spill impacts of Sea Empress oil. Assessments & factsheets for the Marine Conservation Society
- Dredging policy and environmental impacts for the Marine Conservation Society.
- Conference organisation for the National Coasts and Estuaries Advisory Group: Coastal Zone Management - the New Agenda.
- Conference organisation and action centred networks in relation to aquatic litter and Local Authorities and coastal pollution. Sponsored by the Environment Agency, Welsh Water and Kent County Council.
- Aquatic Litter - information toolkit - using digital media technologies: Demonstration Programme sponsored by the Environment Agency and Welsh Water. \* EA report published in 1997.
- Training for the Oil Spill Response Ltd; two courses in Aberdeen and Southampton
- Training for Zeneca: three courses for SHE managers. Manchester and Brixham
- Decommissioning North Sea Oil structures: Advice on approaches to consultation for Amoco
- Training for Medcoast course planning and tourism in the coastal zone (Malta).
- Publication of three papers on Aquatic litter, marine pollution and local authorities and coastal pollution.
- Conference (Jan.1996) and publication of Marine Environmental Management: Review of 1995 and Future Trends.
- Chaired Northumberland coastal forum meeting (March).
- Shark Specialist Group member IUCN
- Feasibility study for a nature Conservation Agency consortium on the establishment of a European Shark Conservation Organisation, with Sarah Fowler of the Nature Conservation Bureau; meeting with potential partners and European Commission in Brussels (Sept. 1996)

## R.Earll Projects 1995

**Best Practice Guide to Coastal Zone Management Planning** Member of the consortium lead by Nicholas Pearson Associates which undertook work on this Department of the Environment contract. My main role was to advise on the processes of consultation and organise three regional workshops [Bristol, Leeds & London], a national seminar in London and consultation meetings with the fishing industry and Wildlife Link.

**ESRC - NERC Steering Committee for Coastal Zone Management** : Joined in December 1995.

### **Training and conference presentations**

- Zeneca Environmental Management Course: '*An environmentalist's view of the chemical industry*'.
- Oil Spill Response Ltd: OSSC: Oil Spill Management Course: '*Pressure groups and oil spills*'.
- Seafish Industry Authority consultancy: '*An environmental perspective of the fishing industry*'
- CIWEM National Symposium on Waterside Developments: '*Waterside developments - an environmentalist's view*'.
- London School of Economics: Masters course lectures in Sea Use Management.
- Chaired meetings for:-
  - Amoco - Dorset Conference to describe the results of studies off the Dorset coast.
  - Humber Standing Conference - Annual meeting in November 1996 in Hull

**Coastal & Estuarine Pollution: Analysis, Policy & Action** This was a three day meeting organised on behalf of Kent County Council and the National Coasts & Estuaries Advisory Group. It comprised two workshops and a conference. The conference on the middle day informed the two workshops. The meetings involved 30 speakers and publications were produced for each day. The meeting was designed to lead up to a European meeting to be held in Lille in April 1996. The meeting programme included:-

- *Day 1 Measuring and managing litter in the aquatic environment*- this workshop resulted in guide to methodology for those who are conducting work on litter in the aquatic environment.
- *Day 2. Recent Policy Developments and the Management of the Coastal Pollution* - 9 presentations including the North Sea Ministerial meeting, Environment Agency and legal responsibilities for pollution.
- *Day 3. Local Authorities and Coastal and Estuarine Pollution*: This workshop included 7 short presentations and discussion of a text designed to inform local authorities. It is likely that a local authority network dealing with coastal pollution will be one of the main outcomes of the meeting.

**Marine Environmental Management: Reviews of 1994 & 1995 & Future Trends** This successful series of meetings is run by Marine Environmental Management & Training and has included:-

- the January (1995) meeting in London which attracted 150 delegates.
- the proceedings of the meeting published in April, 19 speaker papers and supplements on the law, fisheries, nature conservation, water quality and pollution.
- the preparations for the 1996 meeting in London Jan.24th-25th.

**Formation of a European Elasmobranch Society (EES)- Feasibility Study** Funded by a contract from Scottish Natural Heritage as a part of a team lead by the Nature Conservation Bureau. This project investigated the potential, organisational structure and operation of an EES. It involved meeting European delegates and the EU fisheries and environment officials in Brussels and meetings with Woodlands Trust and Greenpeace.

Other related interests include:-

- Organised / Chaired 3 meetings of the UK Elasmobranch Group
- Joined the IUCN Shark Specialist Group

## **R.Earll Projects during 1994**

### **Meetings**

- Organised meeting and published '*Marine Environmental Management - Review of 1993 and Future Trends*'.
- Organised meeting on shark and ray conservation and management with Jack Casey from NOAA, USA. This was the second meeting of its type and has led to the formation of the UK shark and ray conservation group and nature conservation agency funding for the development of a European Elasmobranch Society (£70K) over three years.
- Organised meeting and published proceedings on '*Statutory and Non-statutory Plans in the Coastal Environment - Overlapping plans - are they a problem?*'
- Organised meetings on '*The Precautionary Principle - Making it work in Practice*'.
- Organised meeting on '*Coastal and Riverine Litter - Problems and Effective Solutions*'; published in March 1995.
- Organised meeting on '*Marine Environmental Management - Review of 1994 and Future Trends*': to be published in April 1995.

### **Other Projects**

- Published '*Guide to Seabed Habitats*', a 119 page overview of the topographic 'scenery' and small scale features, illustrated with over 90 photographs, of the seabed found in the shallow seas of UK and Europe.
- Prepared project proposals and attended meetings/made presentations with the BOC Foundation and MAFF in London on the treatment of organic farm waste using polymers and mechanical means. This resulted in an award of £250,000 [from NRA, BOC & MAFF], over three years for a pilot scale project.
- Refereed papers for Marine Pollution Bulletin, ICES Journal of Fisheries Research and Aquatic Conservation.

### **Presentations**

- Zeneca Environmental Management Course: '*Environmentalists view of the chemical industry*'.
- Oil Spill Centre Southampton: '*Environmentalists view of major oil spills*'.
- Lectures at London School of Economics: North Sea Ministerial Meeting, and Coastal Zone Management, Lancashire University: Marine Protected areas and the Habitats Directive.
- Presentation and publication at the Seas at Risk conference on the North Sea, Copenhagen, October 1994: '*The Role of Environmental Charters*'. This included an appraisal of the CERES principles (company performance measured against environmental principles which are audited annually for ethical investment purposes) and the International Chamber of Commerce environmental principles.