**Staff**

- **Director/Professor**: Mahon, Robin, BSc (UWI), MSc, PhD (Guelph)
- **Professor**: Oxenford, Hazel, BSc (Exeter), PhD (UWI)
- **Senior Lecturers**: Nurse, Leonard, BSc (UWI), MSc (Memorial), PHD (McGill) McConney, Patrick, BSc (Bangor), MES (Dalhousie), PhD (UBC)
- **Lecturers**: Cumberbatch, Janice, BSc (UWI), MES (York), PhD, (UWI) Cashman, Adrian BSc (Eng) London, MSc (EEEM) (York, UK), DIC (Imperial College, London), PhD (Sheffield)
- **Programme Coordinator**: Selliah, Neetha, BSc (Surrey), MSc (UWI)
- **Projects Officer**: Pena, Maria, BSc, MSc (UWI)
- **Snr Laboratory Technician**: Goodridge, Renata, BSc (Calgary), MSc (UWI)
- **Information Technology**: Benskin, Dale, BSc (UWI)
- **Research Assistant**: Blackman, Katherine, BSc, MSc (UWI)
- **Stenographer Clerk 1**: Selman, Bibi, APS, BSc (UWI)

**Sustainable Grenadines**

- **Project**: Barriteau, Martin, Dip. Forestry
- **Project Manager**: Francis, Valgine, Programme Officer

**Affiliated Academic Staff**

- Browne, Darren BSc, PhD *In Prog.* (UWI)
- Farrell, David, BSc (Western Ontario), MSc, PhD (Manitoba)
- Hutchinson, Natalie, BSc (Southampton), MSc (UWI)
- Inniss, Vernese, BSc, PhD (Delaware)
- Marshall, Nigel R., MSc (Harrington)
- Narayen, Kailas, BSc (UWI), PG Dip. Hydrological Engineering, (Delft), PG Dip. Hydrology (California)
- Pulwarty, Roger, BSc (York), PhD (Colorado)
- Roth, Michael BSc, MSc (Waterloo), PhD (Victoria)
- Schuhmann, Peter, BSc (U North Carolina), ME (North Carolina SU), PhD (U North Carolina)
- Shorey-Bryan, Norma BSc (UWI), MSc (Howard)
- Walling, Leslie, BSc, MSc (UWI)
- Wood, Beverley, BSc (UWI), MSc (Surrey), PhD (UWI)
Work of the Department

CERMES continued to conduct research and outreach as well as to deliver its MSc programme. Outreach activities include the newsletter ‘CERMES Connections’. CERMES also continued to host the Project Implementation Unit for the Caribbean Large Marine Ecosystem Project until September.

MSc Programme

CERMES continued to offer the course-based Masters of Science (MSc) degree in natural resource and environmental management, with five specialisation streams: Coastal and Marine Resource Management; Climate Change (with assistance from the United Nations Development Programme and the CARICOM Climate Change Centre), Waste Management, Applied Meteorology and its newly launched Water Resources Management. In September 2007, 14 students registered for the MSc programme: 7 for the Coastal and Marine Resource Management stream, 5 for the Climate Change stream, and 2 for the Water Resources Management stream, while the Waste Management and Applied Meteorology streams were not offered.

Regional Initiatives and Projects

CERMES plays a significant role in initiatives and projects towards sustainable development in the Caribbean. Some of these for which CERMES is the leader, implementer or a substantive collaborative partner are given below.

CERMES was host to the Project Implementation Unit for the Caribbean Large Marine Ecosystem Project. The unit was staffed by Dr. Lucia Fanning and Ms Bertha Simmons and provided the technical basis for the US$700,000 Global Environment Facility (GEF) funded project to develop the full project proposal for submission to the GEF. The proposal was submitted in November and approved by the GEF in April 2008.

The Memorandum of Understanding between the United Nations Development Programme (UNDP) and The University Of The West Indies (UWI) for the Mutual Collaboration Between The United Nations Development Programme and The University of the West Indies, for the Support of the Centre For Resource Management and Environmental Studies Master Of Science in Natural Resources and Environmental Management-Climate Change Specialization, to Increase Regional Capacity and the Development of Regional Professionals in Climate Change Risk Management in the Caribbean Region was extended to provide two scholarships 2007/2008.

Hazel Oxenford and Peter Schuhmann secured BDS $45,000 in funds from Barbados Fisheries Division to complete project: “Economic Valuation of Fishing Industry in Barbados”. Work began in July 2007 on the off-shore longline pelagic fishery the near-shore benthic trap fishery with CERMES graduates Julian Walcott and Tanya Staskiewicz.

CERMES was awarded a NOAA Coral Reef Conservation Grant of US$38,000 to undertake a project on ‘Socio-economic monitoring by Caribbean fishery authorities’.
CERMES prepared the annual UWI report to the Caribbean Regional Fisheries Mechanism (CRFM) which was presented to their Fisheries Forum by Patrick McConney.

CERMES has received US$20,000 from the Ministry of Family, Youth, Sports and the Environment to undertake a conch survey in Barbados in collaboration with the Fisheries Division of the Ministry of Agriculture and Rural Development. The research is being lead by Hazel Oxenford.

The Sustainable Integrated Development and Biodiversity Conservation in the Grenadine Islands (2002-2008) project continued. It focuses on the role of civil society in sustainable development in the Grenadines and the modalities of effecting change in complex systems and is funded by The Lighthouse Foundation (US$920,000).

CERMES-Dalhousie University Nippon Foundation Grant
Dalhousie University received a grant of approximately US$500,000 for two years to collaborate with CERMES on ‘Strengthening Principled Ocean Governance Networks: Transferring Lessons from the Caribbean to the Wider Ocean Governance Community’. The funds will include a scholarship, travel exchanges, a workshop at UWI, technical support and seminars.

On 26 October, 2007, Deputy Principal Professor Leo Moseley signed an MOU with The Global Environment Facility (GEF) Small Grants Programme (SGP) under which CERMES and the SGP will collaborate in provision of technical support and capacity building. The MOU provides for students to become involved in SGP activities for their research projects. At the same time CERMES received an additional US$10,000 from UNDP to support OECS students in the Climate Change Stream of the MSc Programme.

CERMES accepted an invitation to serve on the Technical Advisory Committee (TAC) of the Regional Coordinating Mechanism (RCM) for the follow-up to the Mauritius Strategy for Further Implementation of the Barbados Plan of Action (BPoA) for the period 2008-2010.


CERMES joined the rest of the Faculty of Pure and Applied Sciences at the first ever Graduate Fair of The University of the West Indies, November 7 2007, at the Sherbourne Conference Centre.

CERMES donated books worth over BDS$150 to the Selah Primary School. They were all in the topic area of science and the environment, and included the Kingfisher Science Encyclopedia.

Workshops

CERMES organised or co-organised the following training and technical workshops across the Caribbean this year.
The Inception Workshop for the Dalhousie University-CERMES/IOI project on ‘Strengthening Principled Ocean Governance Networks: Transferring Lessons from the Caribbean to the Wider Ocean Governance Community’ was held at CERMES March 3-5, 2008. CERMES researchers presented their work and heard from the visitors about what they were doing. An MOU for the project was signed by the Principal of UWI, Cave Hill Campus.


SocMon training workshops in Nevis (20-22 May, 2008) and Grenada (27-29 May, 2008) delivered by Maria Pena and Patrick McConney.

SocMon Caribbean Training Workshops for five Socio-economic monitoring by Caribbean fishery authorities project sites. Delivered by Maria Pena: Barbados, 5-7 May 2008 (assisted by Dr. Patrick McConney); Dominica, 4-16 May 2008 (assisted by Ms. Katherine Blackman); Nevis, 20-22 May 2008 and Grenada, 27-29 May 2008 (assisted by Dr. Patrick McConney); and St. Vincent, 3-5 June 2008 (assisted by Ms. Katherine Blackman).

Workshop on Organisational Assessment and Outcome Mapping, Placencia, Belize, 13 Aug 2007, delivered by Patrick McConney in collaboration with Dr. Brian Davy.

Management of Coastal Recreational Tourism, coordinated and delivered by Janice Cumberbatch in collaboration with the Department of Management Studies, Cave Hill and the University of Malta sponsored by the Commonwealth Fund for Technical Co-operation of the Commonwealth Secretariat, London, and the Caribbean Tourism Organisation, Solutions Centre, UWI, Cave Hill, June 30 - July 11 2008.

MarGov networking workshop: ‘Marine Resource Governance From a Network Perspective’. This workshop was aimed at fostering a collaborative research agenda between the Canadian attendees and their Caribbean counterparts from CERMES and the Caribbean Natural Resources Institute (CANARI) in Trinidad and Tobago; CERMES, UWI, April 14-16, 2008

Workshops on ‘Enhancing Marine Resource Governance through Developing Capacity for Communication in the Eastern Caribbean’ Organised and implemented by Carmel Haynes, funded by GCFI, Barbados, March 25; Grenada, March 27; St. Lucia April 2; St Kitts June 3 and Nevis, June 4, 2008.

A public seminar on ‘The Caribbean Sea: harnessing and protecting a vital resource’ was held in the Solutions Centre on July 1, 2008. It was cohosted by CERMES, The Ministry of Foreign Affairs, Foreign Trade and International Business of Barbados, and the Association of Caribbean States. The Seminar was attended by about 70 participants from the Caribbean Sea Commission and several ambassadors of Caribbean Countries.
Institutional Collaboration

CERMES collaborates with several national, regional and international institutions and organisations. Collaboration includes conducting research, providing advisory services, and providing interns:

- Barbados Hotel and Tourism Association (BHTA)
- Caribbean Conservation Association (CCA), Barbados
- Caribbean Environmental Health Institute (CEHI), Castries, St. Lucia
- Caribbean Natural Resources Institute (CANARI), Trinidad
- CARICOM Fisheries Unit, Belize City, Belize
- CCA - a CERMES staff member serves on the regional panel of judges for the Blue Flag initiative
- Coastal Zone Management Unit (CZMU), Ministry of Housing, Lands and the Environment, Government of Barbados
- Department of Biology, McGill University, Canada
- Department of Bioresource Engineering, Brace Centre for Water Resources Management, McGill University Canada
- Environmental Sustainable Development Unit (ESDU) of the OECS, St. Lucia
- Food and Agriculture Organization of the United Nations (FAO), Subregional Office for the Caribbean, Barbados
- Hydromet Department, Ministry of Agriculture, Guyana Department of Fisheries, Guyana
- International Development Research Centre (IDRC), Canada
- Mainstreaming Adaptation to Climate Change Project (MACC) and Caribbean Community Climate Change Centre (CCCCC), Belize
- PADI AWARE - Reef Check implementation and training for the marine monitoring programme in SVG and Grenada
- The Fisheries Division, Ministry of Agriculture and Rural Development, Government of Barbados
- The Fisheries Division, Ministry of Agriculture, Government of Grenada
- The Fisheries Division, Ministry of Agriculture, Government of St. Vincent and the Grenadines
- The Nature Conservancy (TNC), US Virgin Islands
- United Nations Development Programme (UNDP), Barbados
- University of North Carolina, Wilmington
- Norwegian Geotechnical Institute (NGI), Oslo, Norway

Consultancy and Advisory Services

CERMES and associated staff have continued to provide consultancy services this year, including:

Semi-annual microbiological and water chemistry monitoring of the Cooling Tower and Hot Pot waters, for the Barbados Light & Power Company (2005-2008).
Barbados Reef Survey monitoring by the Office of Research in collaboration with CERMES for CZMU (June – September 2007).

Semi-annual microbiology and water chemistry on coastal marine waters for the CZMU.

**Research in Progress (Staff)**

Dr. Robin Mahon

Professor of Marine Affairs

Professor Mahon is conducting research in marine resource governance. Of particular interest are institutional arrangements for governance and how to effect organisational change in complex self-organising systems. This work includes collaboration with the Fisheries Governance Network (University of Amsterdam). Current project activities are focussed on two areas. The first is the role of civil society in sustainable development at the local level, in particular the Grenadine Islands. The second addresses systems for governance of transboundary living marine resources at the regional or large marine ecosystem (LME) level, in particular the Caribbean LME.

Dr Hazel Oxenford

Professor of Marine Ecology and Fisheries

Professor Oxenford is conducting research on the impacts of mass bleaching events on Barbados coral reefs in collaboration with the CZMU (Coastal Zone Management Unit, Government of Barbados) and with scientists from Pennsylvania State University. She is also continuing her research in applied fisheries: leading stock assessment research on the queen conch (with the Ministry of Family, Youth, Sports and the Environment and the Fisheries Division, Ministry of Agriculture and Rural Development; on valuation of Barbados’ fisheries (with FD and Peter Schuhmann, University of North Carolina, Wilmington).

Dr. Leonard Nurse

Senior Lecturer in Coastal Zone Management

Dr. Nurse’s ongoing research focuses on human impact on coastal dynamics, integrated coastal management and the impact of climate change on small island environments. His current work focuses on the identification of vulnerability reduction and climate change adaptation strategies suitable to the needs of small islands, based on the outputs of downscaled global and regional climate models.

Dr. Patrick McConney

Senior Lecturer in Marine Resource Management Planning
Dr. McConney focused on the socio-economic and governance aspects of coastal and marine resource management planning through research and outreach projects. The major projects concerned socio-economic monitoring for coastal resource management in fisheries and marine protected areas, and marine resource governance. Training for coastal management was provided at workshops.

Dr. Janice Cumberbatch

Lecturer in Social and Environmental Management

Dr. Cumberbatch defended her doctoral dissertation which critiques the application of participatory processes in policy, project and programme development and implementation.

Dr. Adrian Cashman

Lecturer – Water Resources Management

Dr. Cashman joined CERMES in March 2007. His research is focusing on the impact of climate change on water resources, development of water policy and institutional governance in Caribbean SIDS, the governance of community rainwater harvesting, leakage and non-revenue water studies and water and gender at household level.

Research in Progress (Students)

Graduate Research Students

Ms Kimberley Baldwin, PhD candidate ‘Development of a participatory multi-knowledge Grenadines Marine Space Use Information System (MarSIS) and its implications for improved collaborative planning of marine resources’
Supervisor: Prof. R. Mahon.

Mr. Kemraj Parsram, PhD candidate ‘Marine resource governance in the Eastern Caribbean in the context of complex adaptive social ecological systems’
Supervisor: Dr. P. McConney.

Ms. Tanya Staskiewicz, PhD candidate ‘Valuation of the reef fishery in Barbados and opportunities for positive changes through management’
Supervisors: Prof. HA. Oxenford, Dr. PW. Schuhmann

Ms Tenile Grant, MPhil candidate ‘Enabling marine resource governance in Barbados and St. Kitts-Nevis from the perspective of complex adaptive sociological systems’
Supervisor: Dr. P. McConney

MSc Programme students
Student research is facilitated through collaborations with several organisations in the region inter alia:
- Caribbean Institute for Meteorology and Hydrology (CIMH), Barbados
- Caribbean Community Climate Change Centre, Belize
- Caribbean Natural Resources Institute (CANARI), Trinidad.
- Environment Division, Ministry of Tourism, Civil aviation, Culture and Environment, Antigua and Barbuda
- Sanitation Service Authority (SSA), Barbados

Student research is supervised by CERMES and other UWI staff, as well as by external persons. The list of MSc student research topics is given below and the non-CERMES supervisors are shown in italics.

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Topic</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billingy, Hayden</td>
<td>Development of an Erosion Risk Map for the Montreal Sub-Watershed, St. Vincent, using the RUSLE, Remote Sensing and Geographical Information System</td>
<td>Frank Farnum</td>
</tr>
<tr>
<td>Camacho, Ruleta</td>
<td>Assessing the Potential for Co-management of the Falmouth Harbour Mangroves and Adjacent Ecosystem</td>
<td>Ivor Jackson, Patrick McConney</td>
</tr>
<tr>
<td>Castillo, Cecy</td>
<td>An Organisational Assessment of the Formation of the Southern Environmental Association (SEA) in Belize as a New Institutional Arrangement for Co-Management</td>
<td>Patrick McConney, Brian Davy</td>
</tr>
<tr>
<td>Deokiesingh, Jenson</td>
<td>Development of a Climate Change Education Programme for First Year High School Students in Trinidad and Tobago</td>
<td>Leonard Nurse</td>
</tr>
<tr>
<td>Glasgow, Everette</td>
<td>The Influence of Socio-Economic Circumstances and Institutional Support Mechanisms on the Vulnerability of Cash Crop Farmers to Floor Disasters: An Assessment of the Ann's Grove and Parika-Back Farming Communities</td>
<td>Leonard Nurse, Mark Bynoe</td>
</tr>
<tr>
<td>Hall, Rachael</td>
<td>Valuation of Fish in the Barbadian Rum Shop</td>
<td>Robin Mahon, Hazel Oxenford</td>
</tr>
<tr>
<td>Heeraman, Amy</td>
<td>Impact of Climate Change on Hydrology and Biodiversity of the Nariva Swamp, Trinidad - Implications for Protected Areas Management</td>
<td>David Farrell, Leslie Walling</td>
</tr>
<tr>
<td>Jordan, Lekeisha</td>
<td>Land-Use Change and its Impact on Costal Quality on the North West Coast of Antigua</td>
<td>Leonard Nurse</td>
</tr>
<tr>
<td>Maloney, Lynette</td>
<td>Hurricane Impact Assessment: Disaster Reduction Vulnerability Analysis with the Poisson Distribution</td>
<td>Colin Depradine, Smail Mahdi</td>
</tr>
<tr>
<td>Millington-Stoute, Shontelle</td>
<td>Drought Risk Assessment for Barbados and the Development of a Drought Index</td>
<td>Adrian Trotman</td>
</tr>
<tr>
<td>Perch, Kendra</td>
<td>Developing the Negril Marine Park Fisheries Management Plan</td>
<td>Patrick McConney</td>
</tr>
<tr>
<td>Reade, Chère</td>
<td>An Evaluation of the Feasibility of the Restoration of McKinnon's Pond, Antigua</td>
<td>Leonard Nurse</td>
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</tr>
<tr>
<td>Robertson, Adanna</td>
<td>Climate Change and Tourism in Barbados: &quot;A Vulnerability and Capacity Assessment of the Tourism Sector in Speightstown in Response to Climate Change&quot;</td>
<td>Janice Cumberbatch</td>
</tr>
<tr>
<td>Sampson, Ezekiel</td>
<td>Renewable Energy: A Critical Component for a Sustainable Energy Policy in Trinidad and Tobago</td>
<td>Roger Pulwarty</td>
</tr>
<tr>
<td>Supersad, Nadeera</td>
<td>Stakeholder Perceptions of Protected Areas in Trinidad and Tobago Towards More Effective Management of Protected Areas</td>
<td>Patrick McConney Sarah McIntosh</td>
</tr>
<tr>
<td>Walrond, Janelle</td>
<td>Sanitation Service Authority: Waste Diversion Strategy</td>
<td>Robin Mahon</td>
</tr>
<tr>
<td>Williams, Eugene</td>
<td>Land Based Sources of Marine Pollution in the Grenadines</td>
<td>Robin Mahon Kimberly Baldwin</td>
</tr>
</tbody>
</table>

**Teaching and Students**

Supervision of research projects for the 2006-2007 cohort (14 students) continued simultaneously with delivery of the MSc courses to the 2007-2008 cohort (14 students). The examination results for the 2007-2008 cohort are illustrated in the following table according to pass rate by course:

<table>
<thead>
<tr>
<th>Course Code and Title</th>
<th>No. Students</th>
<th>Pass Rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT6000 Concepts and issues for environmental managers</td>
<td>14</td>
<td>100</td>
</tr>
<tr>
<td>ENVT6001 Introduction to environmental planning and management</td>
<td>14</td>
<td>79</td>
</tr>
<tr>
<td>ENVT6002 Professional skills for environmental management</td>
<td>14</td>
<td>100</td>
</tr>
<tr>
<td>ENVT6100 Environmental impact assessment</td>
<td>14</td>
<td>100</td>
</tr>
<tr>
<td>ENVT6120 Measurement and analysis in natural resource management</td>
<td>11</td>
<td>100</td>
</tr>
<tr>
<td>ENVT6101 Geographic information systems</td>
<td>13</td>
<td>100</td>
</tr>
<tr>
<td>ENVT 6102 Resource economics</td>
<td>15</td>
<td>80</td>
</tr>
<tr>
<td>ENVT6124 Coastal ecology and dynamics</td>
<td>6</td>
<td>83</td>
</tr>
<tr>
<td>ENVT6122 Fisheries biology and management</td>
<td>7</td>
<td>71</td>
</tr>
<tr>
<td>ENVT6123 Sustainable tourism in the coastal zone</td>
<td>6</td>
<td>83</td>
</tr>
<tr>
<td>ENVT6125 Managing coastal and marine resources and biodiversity</td>
<td>8</td>
<td>75</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Type</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------</td>
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</tr>
<tr>
<td>ENVT6130</td>
<td>Climate dynamics and modelling</td>
<td></td>
</tr>
<tr>
<td>ENVT6132</td>
<td>Vulnerability to climate change and impact assessment</td>
<td></td>
</tr>
<tr>
<td>ENVT6133</td>
<td>Climate change impacts: mitigation and adaptation</td>
<td></td>
</tr>
<tr>
<td>ENVT6131</td>
<td>Policy response climate change</td>
<td></td>
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<tr>
<td>ENVT6200</td>
<td>Hydrology</td>
<td></td>
</tr>
<tr>
<td>ENVT6210</td>
<td>Groundwater resources</td>
<td></td>
</tr>
<tr>
<td>ENVT6220</td>
<td>Water and wastewater management</td>
<td></td>
</tr>
<tr>
<td>ENVT 6230</td>
<td>Water management and the environment</td>
<td></td>
</tr>
<tr>
<td>ENVT 6900</td>
<td>Research Project</td>
<td></td>
</tr>
</tbody>
</table>

**MSc Degrees Awarded**

Adams, Ashley  
Adams, Kristina *  
Babb, Yolanda  
Blackman, Nichole  
Boyce-Drakes, Renee  
Burnham, Danielle *  
Bynoe, Kisandra  
Campbell, Gladwyn  
Catlyn, Damien  
Douglas, Kali *  
Durrant, Silas  
Gill, David *  
King, Tricia  
Khan, Marisa  
Mattai, Indira  
Paul, Jocelyn  
Phillips, Tracy *  
Ramjeet-Samad, Marlyn  
Roach, Donna *  
Roden, Karen  
Staskiewicz, Tanya *  
Walcott, Julian *  
Young-George, Christine

* MSc with Distinction
Graduate Diploma Awarded

Weekes, Arlene

Student Activities

Ms Kim Baldwin

Attended a one-day URISA PGIS training workshop in Washington DC, August 19, 2007.

Attended a ‘Coastal Applications GIS’ class at the NOAA Coastal Services Centre, Charleston, South Carolina, August 29-31, 2007.

Completed ESRI's ArcGIS 9.2 - Natural Resource Applications GIS online course, August 2007.

Received a Reef Check grant to conduct marine monitoring in the Grenadines. Assisted with the set up of 2 new Reef Check sites and trained a new team sponsored by Canouan Dive Centre along with the resurvey of 10 sites in the Grenadines.

Mr Kemraj Parsram

Co-facilitated with Dr. Patrick McConney, a 1 day workshop on network analysis for CANARI and its partners in Trinidad and Tobago, 20th August 2007.

Represented UWI at the Second Special Meeting of the Caribbean Fisheries Forum on the Common Fisheries Policy and Regime in Georgetown, Guyana, 3-4 October 2007.

Ms Tanya Staskiewicz

Member of various research teams: Assessing queen conch stocks on southeast and southwest coasts of Barbados for Ministry of Energy and the Environment; examining the diets of pelagic species of commercial importance to the Lesser Antilles, and cataloguing otoliths of forage species for identification purposes; investigating the value of Barbados’ fisheries.

Attended the one day workshop on Marine Mammal Stranding Response Training, a special sidebar workshop for the Commonwealth Veterinarians’ Conference held at the Barbados Fisheries Division, November 8 2007.

Staff Activities

Dr. Robin Mahon

Regional Project Coordinator, Caribbean Large Marine Ecosystem (CLME) Project of UNESCO IOCARIBE, Cartagena, Colombia, funded by the GEF.

Project Leader, Sustainable Integrated Development and Biodiversity in the Grenadines Islands of St. Vincent and the Grenadines and Grenada.
• Deputy Chair of the 7th Steering Committee Meeting of the Sustainable Grenadines Project in Carriacou, Grenada, January 9-11, 2008.
• Chair of the 4th and 5th meetings of the Executive Committee of the Sustainable Grenadines Project in Union Island, 4 Sept, 2007 and May 4th 2008.

Member of the EU/MARE/SISWO (Netherlands) Fisheries Governance Network (FishGovNet).

Member of the UWI Board for Non-Campus Countries and Distance Education and participated in a meeting of the Board, Anguilla, September 14, 2007.

Member of a working group on ‘Feasibility of Governance for Ecosystem Based Marine Management’ at the National Centre for Ecological Assessment and Synthesis, UCSB, California which met in met at NCEAS November 16-19, 2007.


Referee for the journal Coastal Management

External examiner for a thesis entitled ‘Proposing a capacity development framework for comanagement: Review of capacity development practice in South Africa’ by Ms Aaniyah Omardien of Faculty of Science, University of Cape Town, South Africa.

Dr Hazel Oxenford

Invited member of the Project GLOBAL Caribbean Steering Committee Duke Centre for Marine Conservation, Duke University

Continued to serve as:
• Barbados Site Director for Caribbean Marine Productivity (CARICOMP) monitoring programme.
• Appointed Member of the Working Group on Biodiversity, Government of Barbados.
• Member of the Scientific Committee, Coastal Zone Management Unit, Government of Barbados.
• Re-Appointed Member of the Fisheries Advisory Committee, Barbados Government (until 2009)
• Re-Appointed to the CITES Scientific Authority, Government of Barbados.

Officiated as Fish Biologist at the Barbados Game Fishing Association’s international billfishing competition

Met with Minister Haynsley Benn, March 19, 2008 in capacity of member of the Fisheries Advisory Committee.

**Dr. Leonard Nurse**

Appointed Chairman, Board of Governors, Caribbean Community Climate Change Centre for the 2006 - 2009 triennium, and attended and chaired the Board meeting Belize, February 19-21, 2008.

Chairman, Barbados National Terminal Company Ltd.

Deputy Chairman, Barbados National Oil Company Ltd. up to February 2008; Chairman from March, 2008.

Chairman of the Caribbean Community Climate Change Centre, April 1, 2006 - March 31-2008.

Appointed Chairman of the Barbados Technical Committee for the Extended Continental Shelf (ECS)


Member of the Intergovernmental Panel on Climate Change (IPCC) which was jointly awarded the 2007 **Nobel Peace Prize for climate change research.** The IPCC shared the award with former USA Vice-President Al Gore. The prize was awarded for the Panel’s efforts to raise and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change. Also recognised for his contribution to the Fourth Assessment Report (AR4), and is the longest serving Caribbean member of the IPCC. His participation dates back to 1993 when he first contributed to Second Assessment Report (AR2).

Participated in an Intergovernmental Panel on Climate Change/World Meteorological Organisation meeting on the development of scenarios for modeling climate change and co-chaired a session on downscaling of models at the island level, September 18-21, 2007, in Noordwijkerhout, the Netherlands.
Received the Companion Honour of Barbados for his internationally recognised work in the field of Climate Change.

Participated in negotiations with Suriname in preparation for Barbados submission of a claim to an extended continental shelf beyond 200 nautical miles, Suriname, February 25-27, 2008.

Has been invited by the Permanent Mission of Grenada to the United Nations to represent AOSIS, of which Grenada is the current Chair, on the Climate Change Adaptation Fund Board of the UNFCCC for the period 15th December 2007 to 14 December 2008.

Met with DFID to develop proposals for a training programme on the socio-economic implications of climate change in the Caribbean, May 30, 2008.


Member of the Barbados delegation at discussions between the Government of Australia and Barbados Ministry of Foreign Affairs on matters of mutual interest relating to claims for an extended continental shelf, Australia, July 21-25, 2008.

**Dr. Patrick McConney**

Editor of CERMES Policy Perspectives policy briefs.

Member of the Scientific Advisory Group of the FAO, Western Central Atlantic Fisheries Commission (WECAFC).

Member of the Society for Applied Anthropology.

Member of the IUCN World Commission on Protected Areas (WCPA).

Coordinator of the CERMES 4-year project on Marine Resource Governance in the Eastern Caribbean (a.k.a. MarGov Project) which started on March 1, 2007, and is funded by IDRC of Canada.

Appointed an Elected Partner of the Caribbean Natural Resources Institute (CANARI) for a 2-year term at their 23rd Annual General Meeting, and attended the Eleventh Meeting of the CANARI Partnership, January 15-16, 2007 in Trinidad.

Reviewer for the Caribbean Coral Reef Institute (CCRI)

Attended the Sixth Meeting of the Ad Hoc Legal Working Group on the Common Fisheries Policy and Regime, 9-10 August 2007, Bridgetown, Barbados.

Cofacilitated a one-day workshop ‘Introduction to network analysis in natural resource governance’, 20 August 2007, CANARI, Laventille, Trinidad and Tobago.
Participated in the CRFM Regional Stakeholders Workshop to Promote the Launching of a Caribbean Regional Network of National Fisherfolk Organizations, 26–28 September, 2007, Grenada, and Collaborated with the Caribbean Regional Fisheries Mechanism (CRFM) fisher folk network project.

Remains focused on creating synergies between MarGov and similar projects, having held meetings in September 2007 with Brian Davy of the International Institute for Sustainable Development (IISD) on his Sustainable Aquatic Resource Management (SARM) initiative; and executive director of CANARI, Sarah McIntosh, in October 2007, to discuss ways in which aspects of their research align with MarGov.

Convened and chaired the session ‘Socioeconomics and fisheries management’ and also the convening of a Fishers Forum in partnership with the Caribbean Regional Fisheries Mechanism (CRFM), at the 60th annual Gulf and Caribbean Fisheries Institute, 5-9 November 2007, Punta Cana, Dominican Republic.

Attended the Thirteenth Meeting of the Partnership of the Caribbean Natural Resources Institute, Trinidad, January 22-25, 2008

Attended the OECS Protected Areas and Associated Sustainable Livelihoods Project (OPAAL) Policy, Legal and Institutional Framework Workshop held at the Bay Gardens Hotel, St. Lucia, on 12th -13th February 2008

Attended the Cropper Foundation workshop “Towards Integrated Sustainable Management of the Caribbean Sea: Identifying the research priorities and data gaps” and spoke on the MARGOV Project, Trinidad, March 10-11, 2008

Attended the Society for Applied Anthropology 2008 Annual Meeting in Memphis, Tennessee, USA, March 26-29, to chair a session on Marine Resources and Public Policy, and to present a paper entitled ‘Engaging Public Policy in Marine Resource Governance: Cases from the Caribbean’.


Reviewer for the journal Maritime Studies (MAST).

Lectured to the Dalhousie University IOI class on "Caribbean SIDS Perspective on Fisheries Management" (PROGOVNET project).

**Ms. Janice Cumberbatch**
Member of the Regional Advisory Committee for the UNDP Global Environment Facility (GEF) Small Grants Fund from April 2005, ongoing.

Represented CERMES at the Fifteenth meeting of the Technical Advisory Committee (TAC) of the OECS-Environment and Sustainable Development Unit (ESDU) in St. Lucia, January 16 – 17, 2008.

Led the preparation of a proposal for the review of the Jamaica Tourism Master Plan on behalf of the UWI Consulting Inc., Jamaica February 4 - 9 2008

Coordinator of the UWI Service Learning Programme 2008. It included one week of academic study by the students in the classroom; and one week of service to a local children's home where the UWI students worked on numeracy and literacy projects with the children at Nightengale's Children's Home, June 30 - July 11 2008.

Participated in the first meeting of the UNDP coordinated CBO/NGO donor network for Barbados and the OECS 26 June 2008.

**Dr. Adrian Cashman**

Participated in the Tsunami Risk Mitigation Workshop, UWI Cave Hill Campus, Barbados, July 19-20, 2007.

Gave a presentation to school children at the Fair Weather Fair at the Future Centre Trust, August 2007

Assisted the FAO Sub Regional Office for the Caribbean in the preparation of a Water Sector Review, a National Water Policy for Grenada, and Implementation Plan.

Gave two presentations on Integrated Water Resources Management in the CARIWIN training course for senior technical personnel, 17-29 September. The CARIWIN project is a joint initiative between CIMH and led by the Brace Centre for Water Resources Management, McGill University.

Mentored four McGill University students at Bellairs Research Institute.

Attended two day conference on Mainstreaming and Financing Sustainable Land Management jointly organized by CEHI and UNDP, 8-9 October, 2007.

Gave a lecture and workshop session for 14 students from McGill University Geography Department on the 26th February, 2008 and is supervising of three students carrying out a short project on water use on the Cave Hill campus.


Attended the joint GEF-IWCAM and IABIN Regional Workshop on Indicators, Ocho Rios, Jamaica, 10 – 12 March, 2008
Arranged a Campus Lecture on Climate Change and Flooding presented by Professor Adrian Saul of the University of Sheffield, Pennine Water Group, May, 2008.


Attended 5th World Water Forum, Caribbean preparatory Meeting. 26th June, 2008, St Georges, Grenada.

Attended the Water policy and tourism water use efficiency fieldwork in Grenada, 28th June to 2 July, 2008.

Ms. Neetha Selliah

Participated in the UWI Graduate Fair November 7, 2007

Attended the Regional Investment Forum on Agribusiness Opportunities in Barbados hosted by IICA, 18 – 19 February, 2008

Participated in the National Council for Science and Technology’s (NCST) biennial SciTechXpo at the Sherbourne Conference Centre, 19-22 March 2008

Ms. Maria Pena

Part-time Lecturer for ECOL 3454 - Fisheries Biology, Department of Biological and Chemical Sciences, Faculty of Pure and Applied Sciences, Cave Hill Campus, UWI, September-December 2007.

Assisted in coordinating and participated in the Tobago Cays Marine Park (TCMP) Junior Ranger workshop, 6 October 2007, Union Island.

Assisted in preparing a CERMES exhibit for, and participated in, the UWI Graduate Fair, Sherbourne Conference Centre, 7 November 2007.


Assistant project manager, NOAA-funded Socio-economic monitoring by Caribbean fishery authorities (Fisheries SocMon) project, June 2007 to present.

UWI Recycling Programme coordinator, June 2008 to present.

Currently editing a Food and Agriculture Organization (FAO) report on the white sea urchin, *Tripneustes ventricosus*, in the eastern Caribbean.

**Ms. Renata Goodridge**

Barbados Site Director for Caribbean Marine Productivity (CARICOMP) monitoring programme.

Scientific Advisor for Beautiful Oceans, a company which offers interactive coral reef biology courses for recreational scuba divers and snorkelers.

Collaborated in the CERMES display for the Dean’s Faculty Research Day


Attended the IDB funded Adaptation to Climate Change Toolkit Validation Workshop on September 13, 2007 at the Blue Horizon Hotel, Barbados.

Attended the one day workshop on Marine Mammal Stranding Response Training, a special sidebar workshop for the Commonwealth Veterinarians’ Conference held at the Barbados Fisheries Division, November 8 2007.


Attended and accompanied a student to a workshop on Tsunami Awareness and Mitigation for Barbados in Oslo, Norway June 15-21, 2008.

**Mr. Dale Benskin**

Collaborated in the CERMES display for the Dean’s Faculty Research Day

Participated in the UWI Graduate Fair November 7, 2007

Contributed to the Faculty exhibit at the National Council for Science and Technology’s (NCST) biennial SciTechXpo at the Sherbourne Conference Centre, 19-22 March 2008

**Ms. Katherine Blackman**

E-librarian at CERMES, UWI

Participated in the UWI Graduate Fair November 7, 2007


Maria Pena and Katherine Blackman implemented SocMon training workshops in Dominica (14-16 May, 2008) and St. Vincent (3-5 June, 2008).

Implemented the Community-based Coral Reef Monitoring and Management Project with the Caribbean Conservation Association and the Folkestone Marine Reserve:

- Organised the website content for the Community-based Coral Reef Monitoring and Management project. This website is hosted on the CERMES website, February 2008.

- Assists with the project’s e-group/discussions forum on issues pertaining to the Reserve and sharing of information

- Designed and prepared the first two issues of the project’s newsletter, ReefComm, which can be viewed on the project’s website, March and June 2008 respectively.

- Prepared an annotated bibliography for the Folkestone Marine Reserve. CDs were prepared with selected documents found in the bibliography. Also copies of the documents were made for Folkestone’s library, May 2008.

- Initiate a coral reef monitoring programme for the Folkestone marine reserve with assistance of Renata Goodridge who developed the Reef Watchers manual, field data sheets and underwater guides, June 2008.

**Ms. Carmel Haynes**

Participated in the UWI Graduate Fair November 7, 2007

Obtained a sponsorship contribution from Island Heritage property insurers of BBD$10,000 to be used on MarGov related communication activities for one year.


Attended the 12th full edition of the Caribbean Media Exchange on Sustainable Tourism (CMEx), May 15 to 19, 2008, in Puerto Rico

**Lisa Ann Rollins**

Visitors

CERMES had several visitors during the year:

Ms Jeanelle van Glaanenweygel, Senior Specialist, OAS Washington DC, visited regarding the OAS fellowships and other possibilities for collaboration between OAS and CERMES, August 2007.

Mr. Yves Renard, Consultant, visited CERMES on a mission for FAO WECAFC, January, 2008

Mr. Martin Barritteau, Project Manager, Sustainable Grenadines Project, January, 2008.

Dr. Roland Clarke, Project Manager, and Mr. Leighton Waterman Project Associate, CARICOM Caribbean Renewable Energy Development Programme, CARICOM Secretariat, Turkeyen, Georgetown, Guyana, February, 2008.

Mr Nelson Andrade and Mr Chris Corbin from the UNEP CEP RCU in Jamaica, focussing on opportunities for collaboration. May, 2008

Dr. Judith Mendes, Director, Bellairs Research Institute, St. James, Barbados. Dr. Mendes visited to pursue collaboration between Bellairs and CERMES, February, 2008.

Dr. Lucia Fanning, Director, Marine Affairs Program (MAP); Dr. Robert Fournier, Professor Emeritus; Dr. David Van der Zwaag, Canada Research Chair in Ocean Law and Governance; and Dr. Mike Butler, International Ocean Institute-Canada.

Dr. Bruce A. Jackson, Chair, Department of Science, Professor, Biotechnology and Forensic, DNA Science, MassBay Community College, MA., March 2008.


Professor Adrian Saul of the University of Sheffield, Pennine Water Group, May, 2008.

Mr Trevor Hockley, Consultant, FT Associates, NY, conducting an evaluation of UNDP’s eastern Caribbean Programme, June 2008.

Publications

Books and book chapters


Papers in Refereed Journals


Theses and Research Papers


Conference Proceedings


Technical Reports


Blackman, K.M. and I. Mattai. 2007. Environmental and Sustainable Development Legislation for the Grenadines Islands. Sustainable Grenadines Project (SGP) and Centre for Resource Management and Environmental Studies, University of the West Indies, Cave Hill Campus, Barbados. 68pp.


**Papers and Posters presented at conferences**

**Posters**


**Parsram, K. and P. McConney.** 2007. ‘A research framework for examining the characteristics of networks that determine resilience and adaptability in marine resource governance in the English speaking eastern Caribbean’, 60th Gulf and Caribbean Fisheries Institute, 5-9 Nov, Punta Cana, Dominican Republic.


Oral presentations


McConney, P. 2007. ‘Fisheries governance in the Caribbean: from research to outcomes’ International Institute for Sustainable Development (IISD) meeting on Sustainable Aquatic Resources Management (SARM), Ottawa, Canada, October 24, 2007.


Invited Presentations


Nurse, L. 2008. ‘Our climate is changing: is there any truth in the rumour?’ Feature address at a conference being sponsored by the Geology and Geography Departments at Mona, July 7-11, 2008.