

PERSONAL DETAILS

Name Adrian Jones
Email adrian@visualscience.ca

EDUCATION

1999 *PhD (Marine Science)* from the University of Queensland, Australia
1994 *Bachelor of Science Honours - Class I (Marine Botany)* from the University of Queensland, Australia
1993 *Bachelor of Science (Marine & Terrestrial Ecology)* from the University of Queensland, Australia

EMPLOYMENT

2003- Science Integration Consultant
2002-2003 Chesapeake Postdoctoral Scholar, University of Maryland Center for Environmental Science
1999-2001 Postdoctoral Research Fellow, Marine Botany Group, at the University of Queensland, Brisbane, Australia
1996-1999 Research Assistant, University of Queensland, Brisbane, Australia
1994-1996 Research Assistant, Commonwealth Scientific and Industrial Research Organization (CSIRO), Brisbane, Australia

PROFESSIONAL EXPERIENCE

I am currently working with the Integration and Application Network at the University of Maryland Center for Environmental Science to develop novel ways to better communicate environmental issues through interactive websites.

In my previous position with the Marine Botany Group at the University of Queensland, Australia, I was the task co-ordinator for the biological monitoring component of the Ecosystem Health Monitoring Program. I gained extensive experience with the development, implementation and interpretation of biological indicators. My honours and PhD research involved the development of macroalgal bioindicators for determining nutrient sources. I have been involved in several consultancies determining ecosystem health using a variety of techniques including isotopic analysis of various fauna, flora and sediments. The Marine Botany Group at The University of Queensland has been instrumental in the development of monitoring tools such as $\delta^{15}\text{N}$ signatures, amino acid metabolic profiling, phytoplankton bioassays and PAM fluorescence techniques to better assess ecological health.

During my PhD and postdoctoral research I have been involved in several projects monitoring the ecosystem health in marine, estuarine and freshwater systems. In most cases I was responsible for writing the initial proposals, including the development of project budgets. I was responsible for all aspects of the sampling design and implementation, data interpretation and analysis and report writing.

I have been a reviewer of scientific papers for the journals, Estuarine, Coastal and Shelf Science, the Journal of World Aquaculture Society, and Aquaculture Engineering.

RESEARCH FUNDING

Scholarships

- University of Queensland Post Graduate Research Scholarship
- Department of Botany (The University of Queensland) Post Graduate Research Scholarship
- University of Queensland Higher Education Contribution Scheme Scholarship
- Funding from the Fisheries Research and Development Corporation for PhD Research Project

Research Grants

- Ecosystem Health Monitoring Program (EHMP) of Moreton Bay and its River Estuaries
- Expansion of the EHMP to include Noosa River, Maroochy River, Mooloolah River, Logan River and Nerang River

Research Consultancies

- Kinhill Ltd project to determine the ecosystem health within Eprapah Creek
- Oil Search Limited project to study benthic and pelagic communities at two proposed oil drilling sites in the Gulf of Papua
- Brisbane Water project to design and implement a contingency monitoring program for a wastewater treatment plant upgrade
- WBM Oceanics project to determine the loads and impacts on the Noosa River
- GHD project to determine the loads and impacts on the Logan and Nerang Rivers
- SKM project to determine the impacts of sewage effluent on the ecosystem health of Burgess Creek
- Pine Rivers Shire Council project to determine the effectiveness of artificially constructed wetlands to improve the ecosystem health of two freshwater creeks (Cabbage Tree Creek & Freshwater Creek)

SCIENCE ASSOCIATION MEMBERSHIPS

Australasian Society of Phycology and Aquatic Botany
Australian Marine Science Association
Australian Coral Reef Society
Australian Society of Plant Physiologists

PROJECT INVOLVEMENT

FRDC The use of oysters as natural filters of aquaculture effluent
DIBM task of the Brisbane River and Moreton Bay Wastewater Management Study
CRC for Aquaculture
CRC for Coastal Zone, Estuary and Waterway Management
Ecosystem Health Monitoring Program

OTHER SKILLS

Computer Skills

Assembling hardware components
Establishment of NT Networks
Web Development (PHP, MySQL, XML, RSS, SVG)
Video Capture & Editing
Microsoft Office - Outlook, Word, Excel, Powerpoint & Access
ArcView (GIS)
Minitab (Statistical Software)
Photoshop
Pagemaker
Illustrator
CorelDraw
Adobe Acrobat

Scientific Equipment

PAM Fluorometer (MINI PAM, DIVING PAM, PHYTOPAM)
Gas Chromatograph
Autoanalysers
Spectrophotometers
Water Quality Meters (Horiba, TPS, YSI)
Phytoplankton Nets
Filtering Apparatus
Sediment Grabs
Light Meters
Underwater Video and Still Cameras

Analytical Techniques

Plant Pigment Analyses (including phytoplankton and benthic microalgae)
Water Column and Sediment Nutrient Analysis
 $\delta^{15}\text{N}$ signatures
Amino acid analysis
Phytoplankton bioassays
Total Suspended Solids
PAM fluorescence techniques

Boating Experience

Extensive experience in small boats and associated diving protocols.

Teaching Experience

Preparation and tutoring of various undergraduate courses in coral reef and estuarine ecology with emphasis on marine plants and the use of biological indicators for determination ecosystem health. Preparation of powerpoint lectures on plant cell biology, photosynthesis, coral reef and estuarine ecology and biodiversity.

OTHER QUALIFICATIONS

Recreational Shipmaster's Licence
PADI Divemaster Certification
First Aid Qualifications

CPR Qualifications
D.A.N Oxygen Provider Qualifications

REFEREES

Professional

Professor William Dennison
Vice President for Science Applications
University of Maryland Center for Environmental Science
Maryland, USA
Email: dennison@ca.umces.edu
Reference from Professor Dennison

Dr Nigel Preston
Senior Research Scientist
CSIRO Marine Research
Cleveland, Brisbane, QLD, Australia
Email: Nigel.Preston@marine.csiro.au
Reference from Dr Preston

Personal

Dr Selina Ward
Symposium Director
River Festival
Southbank, Brisbane, QLD, Australia
Email: selinaward@bigpond.com
Reference from Dr Ward