



SIXTH BIENNIAL

SAUHMA CONFERENCE

14 – 16 October 2005

**SAINT GEORGE HOTEL CONFERENCE CENTRE
PRETORIA**

SAUHMA Conference

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OPENING WELCOME

On behalf of the Executive and Conference Committee of the Southern African Undersea and Hyperbaric Medical Association, I would like to welcome you to our Sixth biennial SAUHMA Conference at the St George's Hotel in Pretoria from 14-16 October 2005.

This year our conference boasts a number of international diving experts:

- Prof David Elliott
- Prof Alessandro Marroni
- Dr Carl Edmonds
- Dr Simon Mitchell

In addition we have included some unique features and even some exciting opportunities for advancement of your credentials in diving and hyperbaric medicine (detailed on page 10).

This year our conference commences with a joint event offered in conjunction with the Divers Alert Network of Southern Africa. Between the tragedy related to the death of an Australian Diving Explorer in the beginning of the year at Bushman's Gat and the world record deep dive on open circuit in the Red Sea by Nuno Gomes in June, we have had an increasing interest and need to address the issues of technical diving safety and rational diving practice within this highly specialized group of divers.

The remainder of the Conference is dedicated to advanced recreational and commercial diving medical issues. Which brings me to a very exciting development in post graduate Diving Medicine Training for physicians. For many years, diving medicine training has been limited to the introductory course in Simon's Town and our biennial SAUHMA Conferences. Today, largely through the vision and drive of Dr Jack Meintjes at the Division of Occupational Medicine at the University of Stellenbosch, there is a new degree - a BScMedScHons (Underwater Medicine) available to medical doctors with an interest in diving medicine. However, what makes this programme particularly attractive is that it is composed of four modules - (1) Basic Underwater Medicine; (2) Operational Underwater Medicine; (3) Advanced Underwater Medicine; and (4) Research Methodology. The first two modules may also be acquired via a recognition of prior learning (RPL) mechanism, which means that if you have previously received training in diving and hyperbaric medicine, this training may serve as credit towards their completion requiring only that you enrol in the degree course and pass a RPL evaluation. The SAUHMA Conference this year comprises the contact time of the Advanced Module, meaning that only the research methodology module remains for a large number of you to be able to obtain this degree. We believe that this flexible and innovative approach to providing credentials to those who have dedicated themselves to being trained in this field, will dramatically increase the expertise and recognition of underwater medicine as a sub-specialty in Southern Africa. Jack Meintjes deserves our heart-felt appreciation for this wonderful

initiative! More details on how to become involved in the programme are provided on pages 10 & 11.

With that we again wish to welcome you to our Conference and thank you for your dedication to our field of Diving and Hyperbaric Medicine.



Frans J Cronje, MBChB(Pret), BSc(Hons) Aerosp Med.
President of SAUHMA
14 October 2005

EXECUTIVE COMMITTEE MEMBERS

Critical Care & Anaesthesia Consultant	Dr Bob Warriner
Divers Alert Network Liaison	Dr Hermie Britz
Eastern Cape Representative	Dr Louis Leipoldt
ENT Consultant	Dr Maurice Hockman
Free State Representative	Dr Elmarie Kotze
Gauteng Representative	Dr Martin Bednarek
Hyperbaric Nurse	Sr Lucie Cronje
Hyperbaric Technician	Mr Mike Clark
Kwa-Zulu Natal Representative	Dr Mike Marshall
Medical Practitioner	Dr Pieter Landsberg
Medical Practitioner	Dr Andy Branfield
Medical Practitioner	Dr Allan Kayle
Military Liason	Dr Rudi Britz
Mpumalanga Representative	Dr Frans Fourie
Occupational Health & Safety Consultant	Dr Jack Meintjes
Orthopaedic Consultant	Dr Buks Mare
Paramedic Representative	Mr Trevor Glass
Past President	Dr Hermie Britz (SAUHMA)
President	Dr Frans Cronje (DAN)
President Elect	Dr Gerhard van Niekerk (IMM)
Secretary	Mrs Sel-Marie Pereira
Sports Medical Consultant	Dr Andy Branfield
Surgical Consultant	Dr Campbell MacFarlane
Surgical Consultant	Dr Richard Moolman
Technical Safety Advisor	Mr Francois Burman
Treasurer	Mr Francois Burman
Western Cape Representative	Dr Jonathan Rosenthal

ORGANISING COMMITTEE

**Dr Frans Cronjé
Mrs Sel-Marie Pereira
Mrs Helia van Zyl**

CONFERENCE VENUE & ACCOMMODATION ORGANISERS

**Saint George Hotel
DAN-SA**

SPONSORS

DAN Southern Africa

Netcare911

AIG

INTERNATIONAL GUEST SPEAKERS

- **Prof David Elliott**
- **Prof Alessandro Marroni**
- **Dr Carl Edmonds**
- **Dr Simon Mitchell**

**SOUTHERN AFRICAN UNDERSEA & HYPERBARIC
MEDICAL ASSOCIATION**

SIXTH BIENNIAL SAUHMA CONFERENCE

14 – 16 OCTOBER 2005

**SAINT GEORGE HOTEL CONFERENCE CENTRE
PRETORIA**

GENERAL INFORMATION

Registration, information and all sessions will be held at THE SAINT GEORGE HOTEL & CONFERENCE CENTRE, Pretoria.

REGISTRATION

Friday 14 October 07h00 – 08h00

PROGRAM OVERVIEW

Friday 14 October 07h30 – 17h00 DAN Technical Dive Workshop (SAUHMA Conference – Day 1)

Saturday 15 October 07h30 – 17h30 SAUHMA Conference – Day 2

Sunday 16 October 07h30 – 13h00 SAUHMA Conference – Day 3

EXHIBITOR INFORMATION

Exhibits will be on display in the entrance area to the main conference room

Friday 14 October 07h00 – 16h00

Saturday 15 October 07h00 – 17h00

Sunday 16 October 07h00 – 13h00

PROGRAMME

FRIDAY 14 OCTOBER 2005

SAUHMA CONFERENCE – DAY 1

07h00 – 08h00 Registrations (SAUHMA Conference Delegates and TDW)
 08h00 – 08h15 Opening Address
 08h15 – 10h15 Scientific Papers
 10h15 – 10h45 Refreshments & Exhibits
 10h45 – 13h15 Scientific Papers
 13h15 – 14h15 Lunch & Exhibits
 14h15 – 16h00 Scientific Papers
 16h00 Conference Day one concludes
 17h30 for 18h00 **Meet the Speakers Cocktail**

SATURDAY 15 OCTOBER 2005

SAUHMA CONFERENCE – DAY 2

07h00 – 08h00 Registration & Exhibits
 08h00 – 08h15 Opening address
 08h15 – 10h15 Scientific Papers
 10h15 – 10h45 Refreshments & Exhibits
 10h45 – 12h45 Scientific Papers
 12h45 – 14h00 Lunch & Exhibits
 14h00 – 15h00 Scientific Papers
 15h00 – 15h15 Refreshments & Exhibits
 15h15 – 17h30 Scientific Papers
 19h00 for 19h30 **Banquet**

SUNDAY 16 OCTOBER 2005

SAUHMA CONFERENCE – DAY 3 & AGM

07h00 – 08h00 Registration & Exhibits
 08h00 – 10h00 Scientific Papers
 10h00 – 10h30 Refreshments & Exhibits
 10h30 – 12h15 Scientific Papers
 12h15 – 13h00 AGM
 13h00 Conference Concludes

PROGRAMME

SAUHMA CONFERENCE - DAY 1

CHAIR	TIME	TOPIC	PRESENTER
	07:00-08:00	REGISTRATION	ADMIN
	08:00-08:15	OPENING ADDRESS	CRONJE
CRONJE	08:15-09:15	WHAT IS TECHNICAL DIVING	MITCHELL
	09:15-09:45	WHAT MOTIVATES THE TECHNICAL DIVER	NUNO GOMES
	09:45-10:15	PANEL DISCUSSION	CRONJE
	10:15-10:45	TEA	
MEINTJES	10:45-11:30	WHY DO TECHNICAL DIVERS GET INJURED	MITCHELL
	11:30-12:00	PANEL DISCUSSION	
	12:00-12:45	WHY DO TECHNICAL DIVERS DIE	BRITZ
	12:45-13:15	PANEL DISCUSSION	
	13:15-14:15	LUNCH	
MITCHELL	14:15-15:00	WHAT CAN BE DONE TO IMPROVE THE SAFETY OF TECHNICAL DIVING	MITCHELL
	15:00-16:00	PANEL DISCUSSION	CRONJE
	16:00	WORKSHOP CONCLUDES	CRONJE
PANELISTS			
BRITZ			
CRONJE			
ELLIOTT			
MEINTJES			
MITCHELL			
MARRONI			
EDMONDS			

SAUHMA would like to thank Nuno Gomes for his expertise and contributions to the workshop.

SAUHMA CONFERENCE DAY 2			
CHAIR	TIME	TOPIC	PRESENTER
	07:30-08:00	REGISTRATION	ADMIN
	08:00-08:15	OPENING ADDRESS	CRONJE
CRONJE	08:15-09:15	THE FUTURE OF MEDICINE FOR THE WORKING DIVER	ELLIOTT
	09:15-10:15	DIVING FATALITIES	EDMONDS
	10:15-10:45	TEA	
ELLIOTT	10:45-11:45	WHAT WE KNOW ABOUT RECREATIONAL DIVING SAFETY	MARRONI
	11:45-12:45	DECOMPRESSION FOR DUMMIES	MITCHELL
	12:45-14:00	LUNCH	
MARRONI	14:00-14:30	UNDERWATER MEDICINE TRAINING IN SOUTH AFRICA	MEINTJES
	14:30-15:00	ARE CHEST X-RAYS REALLY NECESSARY - RECREATIONAL / COMMERCIAL	EDMONDS
	15:00-15:15	TEA	
EDMONDS	15:15-16:15	THE WAY WE ASCEND	MARRONI
	16:15-16:30	TEA	
	16:30-17:00	UPDATE ON DIVING MEDICINE IN SOUTHERN AFRICA	MEINTJES
	17:00-17:30	TSUNAMI DVI PRESENTATION	SCHOLTZ

In addition to our international faculty, we wish to thank Prof Hendrik Scholtz – Head of the Department of Forensic Medicine University of the Witwatersrand.

SAUHMA CONFERENCE DAY 3			
CHAIR	TIME	TOPIC	PRESENTER
	07:30-08:00	REGISTRATION	ADMIN
MITCHELL	08:00-09:00	MARINE LIFE INJURIES	EDMONDS
	09:00-10:00	DYSBARIC OSTEONECROSIS & THE NEED FOR LONG BONE X-RAYS	ELLIOTT
	10:00-10:30	TEA	
MEINTJES	10:30-11:00	LIDOCAINE & ARTERIAL GAS EMBOLISM	MITCHELL
	11:00-11:30	LESSONS FROM RECREATIONAL DIVING MEDICALS	EDMONDS
	11:30-12:00	LESSONS FROM COMMERCIAL DIVING MEDICALS	ELLIOTT
	12:00-12:15	UPDATE ON DIABETES AND DIVING	MITCHELL
CRONJE	12:15-13:00	AGM	EXECUTIVE COMMITTEE
	13:00	CONFERENCE CONCLUDES	

Refresher courses in Underwater Medicine

Designated Medical Practitioners must attend a refresher course in underwater medicine, approved by the Chief Inspector, every four years – in accordance with the Diving Regulations, 2001.

There are currently two refresher courses recognized by the Chief Inspector, namely:

1. The **Diving and Submarine Medicine Refresher Course** presented by the Institute for Maritime Medicine in Simonstown over three days' contact time.

For more information and course dates, please contact Capt. G. Warries at the Institute for Maritime Medicine - Tel. (021) 787 4495.

2. The **Refresher Course in Underwater Medicine** presented by the University of Stellenbosch (Department of Community Health, Division of Occupational and Environmental Medicine). Students may choose to attend the contact time (3 days) for this course, or do the **internet-based programme**. The Recognition for Prior Learning process makes it possible for students to write an examination immediately upon entry in the course and not wasting unnecessary didactic time on work you already know. In the case of one failing this examination, one can only do the themes identified as problem areas (all available via the internet). Being an internet-based programme, you may complete this course in your own time.

Costs: The total costs for the refresher course is R3,000.00. Much of the outcomes of the refresher course will be covered during the SAUHMA conference. As a special offer, the University of Stellenbosch will pay your SAUHMA conference fees (R2,000.00) if you enroll for this course now – you thus only pay R1,000.00.

Complete the registration form (overleaf) for easy registration, or contact Dr Jack Meintjes for more information at

- wajm@sun.ac.za
- (021) – 938 9272 (w) or 082 782 8786 (c)

Both these courses are registered for CPD points.

University of Stellenbosch
 Faculty of Health Sciences
CERTIFICATE PROGRAMME
 Continuing Professional Education in
 Underwater Medicine 2005.

REFRESHER COURSE: DIVING MEDICAL EXAMINER
 REGISTRATION FORM

Initials & Surname: _____ Dr. _____
 Address: _____

 _____ Code: _____
 e-mail address: _____
 Tel: _____ Fax: _____ Cell: _____
 ID #: _____ HPCSA #: _____

Tertiary Qualifications:

Qualification	Place attained	Year

Underwater Medicine Experience:

The full registration fee for this course is R 3000-00 (SAUHMA conference 2005 delegates pay R 1000-00). Full payment is necessary upon registration. Please attach a copy of your HPCSA and Department of Labour Registration certificates as well as proof of your initial Underwater Medicine course.

I accept that no access to the course will be granted without full payment.

Signature: _____ Date: _____

Please complete and return to:
 Francine Wagenstroom
 Dept. Community Health
 PO Box 19063
 Tygerberg
 7505
 Tel: (021) 938 9375
 Fax: (021) 938 9166

For Office use only	
Payment received	
SAUHMA receipt attached	
Copy of HPCSA registration	
Proof of DoL registration	
Primary U/W Medicine Course	

INTERNATIONAL GUEST PRESENTERS

CURRICULA VITAE

DAVID HALLEN ELLIOTT, O.B.E.,
 D.Phil.(Oxon), F.R.C.P., F.F.O.M.

QUALIFICATIONS: 1956 MB BS Honours (London)
 1964 Doctor of Philosophy (Oxford)
 1973 Member, Faculty of Community Medicine
 1975 Member, Royal College of Physicians (London)
 1978 Member, Faculty of Occupational Medicine
 1983 Fellow, Royal College of Physicians (Edinburgh)
 1983 Fellow, Faculty of Occupational Medicine
 1989 Fellow, Royal College of Physicians (London)

AWARDS: 1973 Commendation, Secretary of the United States Navy
 1975 Stover Link Award, Undersea Medical Society
 1975 Gilbert Blane Gold Medal, Royal Navy
 1981 Oceaneering International Award, Undersea Medical Society
 1996 Charles W. Shilling Award, Undersea & Hyperbaric Medical Society
 1996 International Award for Advances in Diving Medicine, Diver Alert Network
 1998 Colin McLeod Award of The British Sub-Aqua Club

EXPERIENCE:

Royal Navy 1958-1960, 1963-1976.
 Senior Medical Officer, Admiralty Experimental Diving Unit.
 Senior Medical Officer (Underwater) at Royal Naval Physiological Laboratory.
 Three year appointment at U.S. Naval Medical Research Institute, Bethesda.
 Decompression Sickness Panel of Medical Research Council, Member from 1973, Chairman 1981-1993
 Undersea Medical Society, Executive Committee, 1970-1975, President 1972-1973
 Diving Medical Advisory Committee, Member 1973 to present, Chairman 1978-1990
 European Diving Technology Committee, Member 1973 to 2002, Chairman 1991-1998
 European Undersea Biomedical Society, Executive Committee, 1974-1988, President 1979-1982
Shell 1976-1988
 Shell International as the Group Adviser in Diving 1976-1983
 Chief Medical Officer, Shell U.K Ltd, 1983-1988.
 Norwegian Medical Research Council (NAVF) Deep Diving Project Board, Member, 1984-1990
 The Civilian Consultant in Diving Medicine to the Royal Navy, 1988 to present

German State laboratory GUSI-GKSS. Consultant in Occupational Health 1988-1991.

Association of Offshore Diving Contractors (AODC), now part of International Marine Contractors Association (IMCA). Scientific and Medical Adviser, 1991-2001

Space Medicine Committee: U.S. Academy of Sciences I.O.M.

Invited contributor on "Health Care in a Remote Hostile Environment", 2000

Task Force on Diving for the World Congress on Drowning, Chairman 1999-2002

ACADEMIC APPOINTMENTS:

Professor (Personal Chair), Institute of Occupational Medicine, University of Aberdeen 1984 -1989

Shell Professorial Research Fellow, Robens Institute of Industrial Health and Safety, University of Surrey, 1986-1991

Visiting Professor in Occupational Medicine, University of Surrey, 1991-1996

European College of Baromedicine, University of Malta. Founding Fellow, 2000.

CONTRIBUTIONS TO BOOKS include

Physiology and Medicine of Diving and Work in Compressed Air. Bennett PB & Elliott DH, eds. Bailliere Tindall & Cassell, London. 1969

Long Term Effects of Diving. University of Bergen: Bergen. 1994.

Medical Assessment of Fitness to Dive: Biomedical Seminars. 1995

Oxford Textbook of Sports Medicine, 2nd Edition. OUP: Oxford. 1998

Hyperbaric Medical Practice, 2nd Edition. Flagstaff: Best Publishers. 1999

Hunter's Diseases of Occupations 9th Edition. Arnold: London. 2000.

Oxford Companion to The Body. Oxford University Press: Oxford 2001

Bennett & Elliott's Physiology and Medicine of Diving, 5th Edition,

Saunders: London 2003

Bove & Davis' Diving Medicine, 5th Edition. Saunders: Philadelphia 2004

DR ALESSANDRO MARRONI, M.D.

Dr. Marroni was born in Lecce, Italy, on 28 February, 1946. He is married to Nuccia De Angelis Marroni, an underwater archaeologist and the Senior Vice President of DAN Europe and has two daughters, Francesca and Laura.

An avid skin-diver since his early years he learnt SCUBA diving at the age of 13 and became a Certified Diver with CMAS in 1964 and a SCUBA Instructor since 1966 and he is still active as such.

During High School and University years he was an active athlete in Underwater Orienteering and Fin Swimming from 1964 to 1968 and a Member of the Italian National Team in 1964-1965.

After the High School Degree he was a Medical Student at the University of Bologna from 1964 to 1971. During the University Medical Studies he became progressively involved in diving medicine, starting experimental and (for the time) innovative studies on physiological monitoring of the submerged diver.

He obtained the Medical Degree "Magna cum Laude" at the Bologna University, Italy, on 22 July 1971 defending an experimental thesis on the "Cardio-Cerebral monitoring of the underwater diver".

One year after he successfully passed the Educational Council for Foreign Medical Graduates examination (USA) - 1972 -.

After moving to the University of Genova, Italy, to specialize in Underwater and Hyperbaric Medicine, in 1974 he obtained the Post-Graduate Specialization Degree in Occupational Medicine, "Magna cum Laude", defending a thesis on the "Medical Problems of Saturation Diving".

During this period he assisted, as the diving medical officer, the Jacques Mayol's Breath Hold Diving Record in 1973 (-86 meters), performing extensive physiological monitoring during the training period and the actual record dive.

In the same year he was part of the founding group of the Italian Committee for Underwater Studies and Research (CIRSS), member of the CMAS Technical Committee, and in 1974 he was a member of the founding group of the Italian Society of Underwater and Hyperbaric Medicine.

In 1980 Dr. Marroni was called as a member of the steering group of the first European Post Graduate Specialization School in Underwater and Hyperbaric Medicine, at the University of Chieti, Italy, under the direction of Prof. Data, and, in 1984, he obtained the Post-Graduate Specialization Degree "Magna cum Laude" in Underwater Medicine, at the University of Chieti, Italy, by direct admission to the discussion of the thesis "Prevention and Early Diagnosis of Decompression Illness by Doppler Monitoring of Circulating Bubbles".

In 1982 Dr. Marroni founded IDA - International Diving Assistance - the first not-for-profit organization in Europe and the second in the world to provide 24 hours emergency diving medical advice, transport and hyperbaric treatment to injured divers worldwide. The organization grew rapidly until, in 1988 a process of unification was started with the Divers Alert Network in the U.S.A. and IDA transformed into DAN Europe and became part of the present International DAN group.

In 1991 he obtained the Post-Graduate Specialization Degree "Magna cum Laude" in Anesthesiology and Intensive Care, at the University of Trieste, Italy, defending the thesis "Function of a Hyperbaric Therapy Facility in the Region Friuli-Venezia Giulia - a cost-benefit and functional analysis".

Dr. Marroni has been particularly active in pursuing the goal of harmonizing underwater and hyperbaric medicine and safety, internationally in general and in Europe in particular, and promoted the European Committee for Hyperbaric Medicine in 1989, while actively operating at the international level as a member and an officer of many International and European Scientific Societies and Groups.

Dr. Marroni is currently President and Medical Director of DAN Europe, Member of the Board of Directors and Chairman of the International DAN, Vice President of the European Committee for Hyperbaric Medicine, President of the European Foundation for the Education in Baromedicine, Secretary General of the European College of Baromedicine, the Past-President of the Foundation for the International Congress on Hyperbaric Medicine, and the Past President of the European Underwater and Baromedical Society.

While active in the international Underwater and Hyperbaric Medical scientific and diving communities, Dr. Marroni kept being involved in clinical Diving and Hyperbaric Medicine and has served as Associate Professor of Underwater and

Hyperbaric Medicine at the Underwater and Hyperbaric Medicine Post Graduate School of the University of Chieti and at the Post Graduate School of Anesthesiology and Intensive Care of the University of Ancona, between 1980 and 1997, Professor of Hyperbaric Medicine and International Faculty Coordinator at the International Post-Graduate School of Baromedicine of the University of Belgrade Medical School, Yugoslavia, since 1997.

Basic and advanced training

- High School Degree (Liceo Classico Galvani, Bologna, Italy) 1964
- Medical Degree "Magna cum Laude", University of Bologna, Italy, 1971
- Educational Council for Foreign Medical Graduates Degree (ECFMG - USA), 1972
- Post-Graduate Specialization Degree "Magna cum Laude" in Occupational Medicine, University of Genova, Italy, 1974
- Post-Graduate Specialization Degree "Magna cum Laude" in Underwater Medicine, University of Chieti, Italy, 1984
- Post-Graduate Specialization Degree "Magna cum Laude" in Anesthesiology and Intensive Care, University of Trieste, Italy, 1991

Academic, Professional and Honorary Appointments

- Assistant Professor at the Hyperbaric Therapy Unit of the "Istituto di Medicina del Lavoro" of the University of Genova, Italy - 1972-1974
- Medical Consultant for Deep and Saturation Diving for SAIPEM S.p.A. (Italian National Oil Company - ENI Group) 1972-1974
- Medical Director of SAIPEM S.p.A. (ENI group) and head of the Diving Medicine Department, 1974-1984
- Approved Diving Doctor under British and Norwegian Regulations since 1975
- Founding Member of Ce.M.S.I. (Center of Underwater and Hyperbaric Medicine) Milano, Italy, 1976
- Consultant in Diving and Hyperbaric Medicine of the Hyperbaric Division of the Galeazzi Institute of Milano, Italy, 1976-1984.
- Associate Professor of Underwater Medicine, Post Graduate School of Underwater and Hyperbaric Medicine of the University of Chieti, Italy, 1980 - 1988
- Founder and President of IDA, International Diving Assistance, now the Divers Alert Network Europe (DAN Europe), since 1982
- Medical Director of the S.Atto Polyvalent Hyperbaric Research Center, University of Chieti and Provincial Administration of Teramo, Italy, 1984-1986
- Consultant in Diving Medicine to the SAACLANT Underwater Research Center (NATO), La Spezia, Italy, since 1984.
- Lieutenant Commander - Honour Role - MC, res., Italian Navy (Capitano di Corvetta Medico cpl. Ruolo d'onore, Marina Militare Italiana) by Decree of the President of the Italian Republic of 7 march 1988, for specific merits in Underwater and Hyperbaric Medicine.
- Medical Director of the P.Maestro Hyperbaric Center, Lucera, Italy, 1989-1992

- Scientific Director of the Italian Baromedical Institute, S. Benedetto del Tronto, Italy, 1989 - 1995.
- Associate Professor of Underwater and Hyperbaric Medicine, Post Graduate School of Anesthesiology and Intensive Care, University of Ancona, Italy, 1992-1997
- Founder, International Faculty Coordinator and Professor of Hyperbaric Medicine at the International Post-Graduate School of Baromedicine of the University of Belgrade Medical School, Yugoslavia, since 1997
- Member, Division of Baromedicine, St. Luke's Hospital, University of Malta Medical School, since 1999
- Member of the Board of Directors of the International DAN
- Member of the Board of Directors of DAN America 2001-2003.
- Member of the Board of Directors of DAN Southern Africa, since 2002.
- Chairman of the International DAN, since 2004
- Current President and Medical Director of DAN Europe

Appointments in Scientific and Technical Societies

- Member of the European Underwater and Baromedical Society (EUBS) since 1973
- Member of the Underwater and Hyperbaric Medical Society, Bethesda USA, since 1973
- Founder of the Italian Committee for Underwater Studies and Research (CIRSS - member of the CMAS Technical Committee) in 1974 and its Secretary from 1982 to 1988.
- Founder of the Italian Society of Underwater and Hyperbaric Medicine and its Secretary from 1976 to 1984.
- Italian Member at the International Hyperbaric Oxygen Planning Meeting, Bethesda, USA, March 1986
- Secretary General of the XIII Annual Meeting of the European Undersea Biomedical Society (EUBS), Palermo, Italy, 1987
- Member of the steering group of the Foundation for the International Congress on Hyperbaric Medicine, Amsterdam, 1987 and its Treasurer from 1987 to 1990
- President of the Italian National Association of Underwater Instructors from 1987 to 1990
- Founder and Secretary General of the European Committee for Hyperbaric Medicine, since 1989
- President of the International Affairs Committee of the Undersea and Hyperbaric Medical Society, Bethesda, USA, from 1987 to 1991
- Member of the Hyperbaric Oxygen Committee of the Undersea and Hyperbaric Medical Society, Bethesda, USA, 1988-1992
- Member of the Workshop Committee (Hyperbaric Medicine section) of the Undersea and Hyperbaric Medical Society, USA, 1989
- Member of the Awards Committee of the Undersea and Hyperbaric Medical Society, USA, 1990-1992
- President-Elect of the Foundation for the International Congress on Hyperbaric Medicine, Amsterdam, 1990 - 1993
- Assistant Editor of "OXYGEN", Official Newsletter della Foundation for the International Congress on Hyperbaric Medicine, Amsterdam, 1990 - 1993

- Member of the Editorial Board of the Journal of Hyperbaric Medicine, Bethesda, Maryland, USA, ISSN 0884-1225
- Program Chairman of the III European Conference on Hyperbaric Medicine, Jesi, Italy, 29 November - 1 December 1991
- Vice President of the European Undersea Biomedical Society 1989 - 1991
- Vice President of the Undersea and Hyperbaric Medical Society, Bethesda, USA, 1990-1991
- President of the European Undersea Biomedical Society, now the European Underwater and Baromedical Society, 1991- 1994.
- Member of the Scientific Program Committee of the "Undersea and Hyperbaric Medical Society 25th Anniversary Scientific Meeting" Bethesda, Maryland, 27 June 1992
- President of the Foundation for the International Congress of Hyperbaric Medicine, Amsterdam, 1993 - 1996
- Chairman, Joint International Meeting on Hyperbaric Medicine, Milano, 1996
- Past President, European Underwater and Baromedical Society, 1994 - 2000
- Past President of the Foundation for the International Congress of Hyperbaric Medicine, Amsterdam, 1996 - 1999
- Vice President (International Affairs) of the European Committee for Hyperbaric Medicine since 1999
- Founder and Chairman, Foundation for the European Education in Baromedicine, since 1999
- Secretary General, European College of Baromedicine, since 1999

DR SIMON J. MITCHELL

Dr Mitchell is a diving and hyperbaric physician based in Auckland, New Zealand. He is an avid diver with 32 years experience. He currently holds the world record for the deepest dive to a shipwreck (600 feet to AHS CENTAUR off Brisbane, Australia).

1. PROFESSIONAL QUALIFICATIONS

- University of Auckland, Auckland, New Zealand
 - Bachelor of Human Biology, (BHB) 1987
 - Bachelor of Medicine and Bachelor of Surgery, (MB ChB) 1990
 - Diploma in Occupational Medicine, (DipOccMed) 2001
 - Doctor of Philosophy in Medicine (PhD) 2001
- South Pacific Underwater Medicine Society
 - Diploma in Diving and Hyperbaric Medicine, (DipDHM) 1995
- Australian and New Zealand College of Anaesthetists
 - Certification in Diving and Hyperbaric Medicine (2003)

2. UNDERSEA AND HYPERBARIC MEDICAL SOCIETY (U.S.A.)

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- Member, 1995 - present
- Vice President 1999 - 2000
- Executive Committee Member-at-Large 2002 - present
- Diving Committee 1997 - present
- Adjuvant treatments committee 1998 - present
- Scientific committee 2000 - present
- Editorial Board, Undersea and Hyperbaric Medicine 2002 - present

3. PRIZES AND AWARDS

A. ACADEMIC AND SCIENTIFIC AWARDS

- University of Auckland, Auckland, New Zealand.
 - Senior Scholar in Medicine, 1987
 - Senior Scholar in Human Biology, 1987
- Undersea and Hyperbaric Medical Society
 - First Prize for Best Paper Presented by a Resident, Annual Scientific Meeting, USA 1996
- South Pacific Underwater Medicine Society
 - Committee Award for Excellence in Presentation, Annual Scientific Meeting, Paihia, New Zealand, 1997
- Australasian Society of Cardiovascular Perfusionists
 - Terumo Award for Best Scientific Paper, Annual Scientific Meeting, Sydney, Australia, 1997 (Presented by Tim Willcox)
- Australasian Society of Cardiovascular Perfusionists
 - Terumo Award for Best Scientific Paper, Annual Scientific Meeting, Sydney, Australia, 1999 (Presented by Tim Willcox)
- The Annual Key West Meeting on Neuroprotection in Cardiac Surgery.
 - Annual award for "the author who publishes the most influential paper on an Outcomes topic". Awarded for "work on neuroprotection and improving the general outcome in patients undergoing coronary artery bypass surgery". Key West, Florida, USA, May 2000
 - Green Lane Old Boys Annual Scientific Meeting.
 - Annual award for best presentation. "The physiological challenges of a world record wreck dive". Auckland, New Zealand. May 2002

B. OTHER AWARDS

- Royal New Zealand Navy, Officer Training School.
 - Prize for Best Direct Entry Officer Graduate, 1992
- Oztek 2002. Australian Diving Technologies Conference.
 - 2002 Industrial Support Award for Support of Technical Diving in Australia. Sydney, September 2002
- New Zealand Underwater Federation 50th Anniversary Convention.

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- Leo Ducker Award for Outstanding Service to New Zealand Diving, Auckland, May 2003

CARL EDMONDS

DEGREES: MB, BS. MRCP (Lond), FRACP, Dip DHM, DPM, FRANZCP, MRCPsych, FAFOM.

POSITIONS

Residencies and registrar positions at Sydney Hospital, Royal Perth Hospital, Hollymooor and Rubery Hill Hospitals in Birmingham, Prince Henry Hospital in Sydney, Callan Park and Roseville Hospitals in Sydney, Honorary positions in Sydney Hospital, Alanbrook Hospital and the Evesham Clinic, Balmoral Naval Hospital, all in Sydney.

- 1967-1975 Officer in Charge of the Royal Australian Navy School of Underwater Medicine.
- 1971-2001 Co-founder and Director of the Diving Medical Centre, Australia.
- 1975-1999 Consultant in Diving Medicine to the Royal Australian Navy Submarine and Underwater Medicine Unit, HMAS Penguin.
- 1971-1975 Foundation President of the South Pacific Underwater Medicine Society.
- 1969-75 Australian Standards Committee into Compressed Air Diving, x
- 1992-6 Honorary Medical Adviser to the State Volunteer Rescue Association, NSW.
- 1973-1991 Foreign Affairs Committee, Undersea Medical Society. Workshop Committee, Undersea Medical Society.
- 1986-1987 Editorial Committee for the "Undersea Biomedical Research" UMS.
- 1993 - 1995 Editorial Committee. Undersea and Hyperbaric Medicine Journal
- Many South Pacific Underwater Medical Society Committees, from 1971 onwards.

AWARDS

- 1987 Recipient Craig Hoffman Memorial Award for services to Diver Safety, Undersea and Hyperbaric Medicine Society.
- 1989 South Pacific Underwater Medicine Society. Awarded Honorary Life Membership.

- 1998 Recipient Divers Alert Network (SE Asia/Pacific) award for Medical Advisory Services to the Diving Industry
- 1999 Recipient Charles W Shilling Award by Undersea and Hyperbaric Medicine Society.
- 2003 DAN AMERICA Award
- 2004 Citation for Contribution to Diving and Hyperbaric Medicine, Australian and New Zealand College of Anaesthetists

EXPEDITIONS

Practical research and field work expeditions included:

- Antarctica, during a three month expedition under the auspices of the Department of the Antarctic, mainly involved in marine biology and diving.
 - Australia-wide survey of marine animal injuries, under the auspices of the Royal Australian Navy.
 - Abalone diver survey, involving most of southern Australia over a period of one year, at the instigation of the Fisheries Industry Research Committee.
 - Pearl diving surveys, involving northern Australia, and carried out at the request of the pearling industry.
 - North American tour of diving research establishments, whilst attached to the U.S. Navy for one year, at their invitation.
 - Diving medicine courses, in dozens of remote and exotic localities (not entirely devoted to duty).
- Involvement with various expeditions and documentaries (more as a mascot than a medic), including:
- HMS Pandora diving expedition and excavations
 - Joshua Slocum's voyage, re-enactment
 - Sir Douglas Mawson, Antarctic expeditions.

CURRENT INTERESTS

Windsurfing, surfing, television viewing, family and friends, avoiding repetitive work, playing with computers, refusing to acknowledge the effects of age and blindness, not feeling guilty about spelling mistakes.

FUTURE INTENTIONS - Never to knock back a good offer.

