

FACULTY OF SCIENCE



Prof. S D D V Rughooputh
Dean of Faculty

INTRODUCTION

The Faculty continued to play a crucial role in the participation of Mauritius in the global, knowledge-based economy. The objective of the Faculty is to create the right learning environment, whether in teaching or research, so that our science students thrive as they progress toward becoming competent and knowledgeable and independent professionals. It is very interesting to note that, over the last 5 years, 22 students have received their PhDs from the Faculty of Science. Their expertise in areas affecting industry, commerce, environment, scientific knowledge, and the comfort and well-being of the average human being will no doubt be felt in the coming decades. The pursuit of excellence is, nevertheless, becoming increasingly challenging in a climate of ever-tightening resources.

For the academic year 2002-2003 the Faculty successfully introduced several new programmes: MSc Computational Science in line with the Cyber Island Development Plan, MSc Environmental Science to cater for the growing environmental needs, BSc (Hons) Biomedical Sciences (Upgrading) P/T and Diploma/BSc (Hons) Biomedical Sciences P/T - to train medical laboratory personnel. The first cohort of BSc (Hons) Nursing a programme conducted jointly with Middlesex University - graduated in 2002/3. The Faculty celebrated the 10 years of Mauritius Radio Telescope along with Science Day in November 2002, attracting over 500 visitors. It is also worthwhile mentioning that an innovation was introduced regarding seating plans for examinations (now adopted by all Faculties).

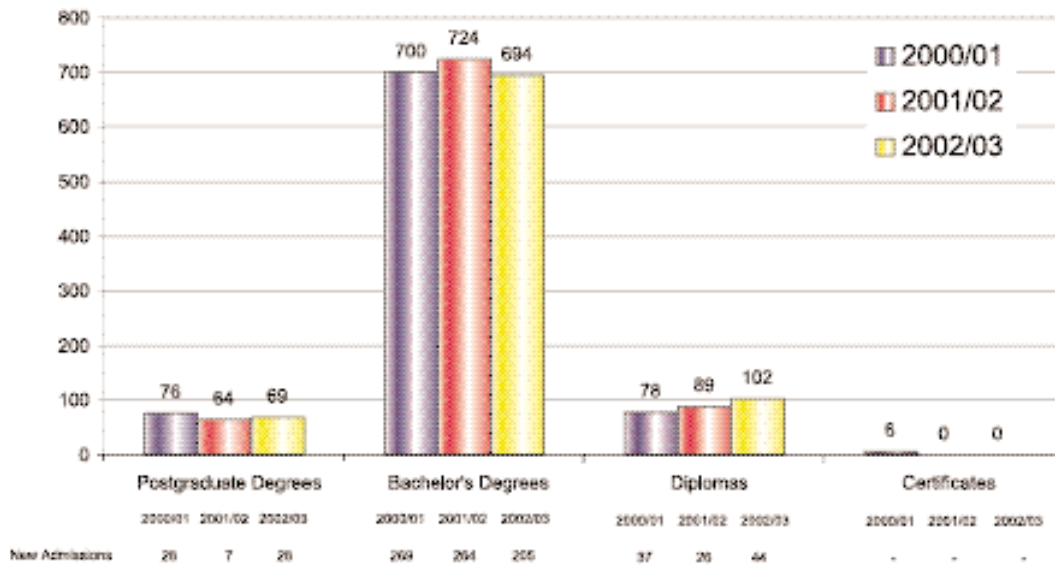
PROGRAMMES OFFERED DURING ACADEMIC YEAR 2002/2003

- 1 MPhil/PhD (by research)
- 1 MSc Chemistry
- 1 *MSc Computational Science with Application in Mathematical Modelling or Physics
- 1 *MSc Environmental Science with Specialisation in Integrated Coastal Zone Management (ICZM)
- 1 MSc Physics/MSc Physics with Specialisation in Astrophysics
- 1 *BSc (Hons) Biomedical Sciences (Upgrading Programme)
- 1 BSc (Hons) Biology/BSc (Hons) Biology with Chemistry or EVS
- 1 BSc (Hons) Chemistry/BSc (Hons) Chemistry with Biology or EVS or Mathematics or Physics
- 1 BSc (Hons) Chemistry with Business Management
- 1 BSc (Hons) Mathematics/BSc (Hons) Mathematics with Physics or EVS
- 1 BSc (Hons) Mathematics with Computer Science
- 1 BSc (Hons) Physcs/BSc (Hons) Physics with Chemistry or EVS or Mathematics
- 1 BSc (Hons) Physics with Electronics
- 1 BSc (Hons) Medical Science
- 1 BSc (Hons) Nursing
- 1 Diploma in Medical Laboratory Technology
- 1 Diploma in Sanitary Science
- 1 Certificate/Diploma in Biotechnology - Applications for Small and Medium Enterprises

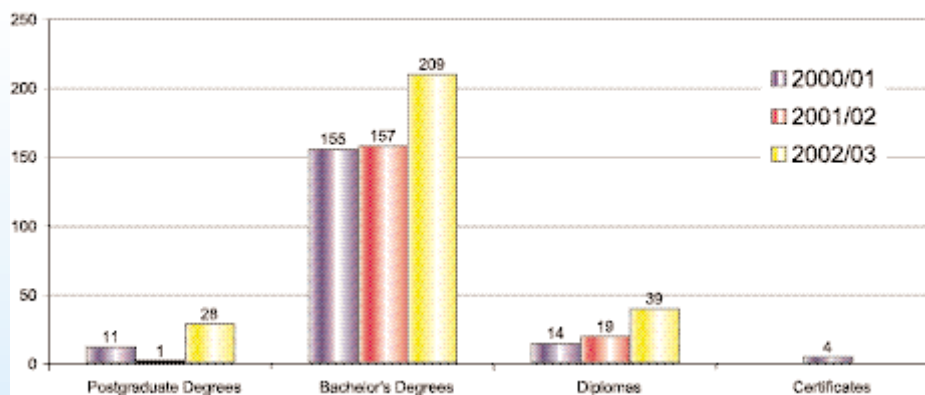
*New Programmes

STUDENT STATISTICS FACULTY OF SCIENCE

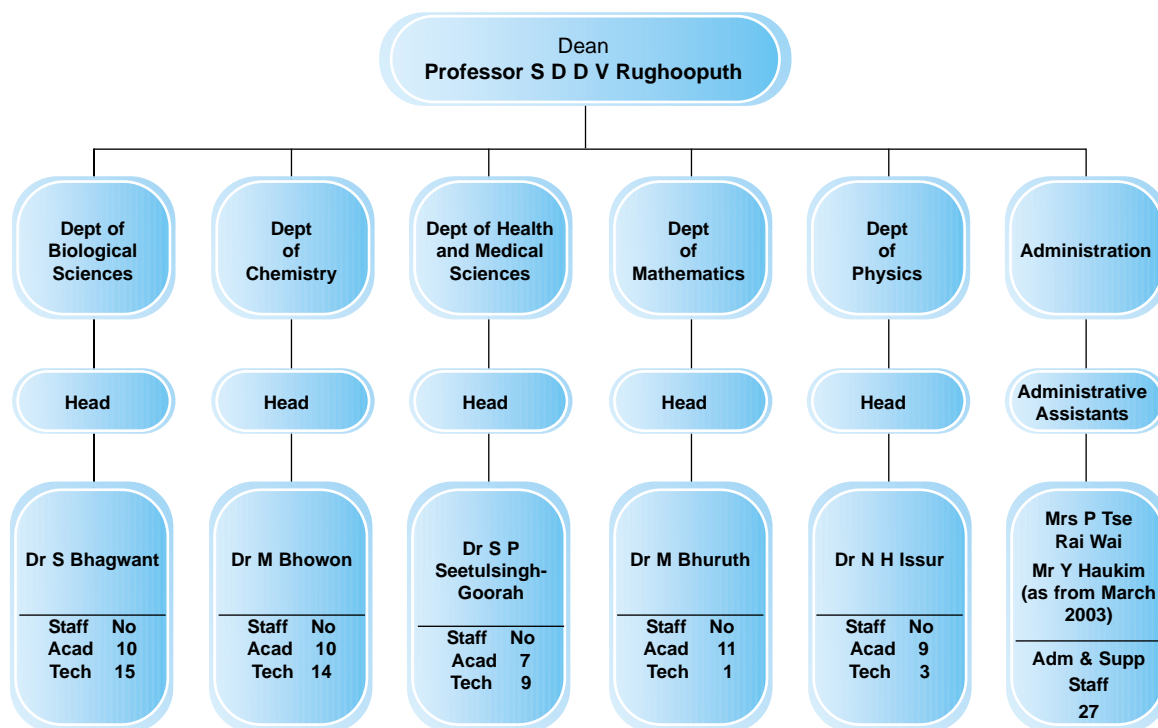
Students Enrolment including New Admissions over Academic Years 2000/2001-2002/2003



Students output over Academic Years 2000/2001-2002/2003



STRUCTURE OF THE FACULTY



NEW MPhil/PhD PROJECTS

Department of Biological Sciences

Mr P Nowbuth - Identification of Local Anthurium Andreanum cultivars using molecular and biochemical markers.

Mr P Sookar - A study of potential entomopathogenic fungi for the biocontrol of fruit flies (Diptera: Tephritidae) of economic importance in Mauritius.

Miss D Dumur - Phytoplankton and Water Chemistry in Mauritian Reservoirs.

(Ongoing: 16 projects)

Department of Chemistry

Miss B Gooransing - Synthesis of Biologically Active Analogues of Mono and Diphenyl Sulphides Derivatives and their Metal Complexes.

(Ongoing: 7 projects)

Department of Health & Medical Sciences

Mr M F Mahomoodally - Pharmacological properties and validation of the ethnobotanical data of local medicinal plants of Mauritius.

(Ongoing: 4 projects)

Department of Mathematics

Mr M Luchoomun - Multilevel Modelling of School Examinations Results in Science and Mathematics.

Mr N A Mamode Khan - Analysis of Longitudinal Data: Algorithms on Application.

(Ongoing: 8 projects)

Department of Physics

Mr S Daiboo - A Statistical Study of a Complete Sample of Radio Sources from the MRT Survey.

Mr F A Ollite - Non Linear and Non Stationary Physical and Biomedical Signal Processing.

(Ongoing: 7 projects)

NEW RESEARCH PROJECTS (Other than MPhil/PhD)

Dr D Daby and Dr J Turner - Mapping of coral reefs and lagoon habitats of Mauritius using satellite remote sensing (Earthwatch, USA, 2003-2005).

Mr V Florens - Determinants of degradation rates in Mauritian remnant forests and impacts on native biodiversity (British Ecological Society s Overseas Bursary and Fellowship Scheme, 2003-2004).

Dr S Jhaumeer-Laulloo, Dr H Li Kam Wah and Dr R Choong Kwet Yive - Extraction of secondary metabolites from marine organisms in the Indian Ocean.

Prof A Gurib-Fakim and Dr A H Subratty - 2002-2004: Projet CAMPUS: Substances naturelles d'intérêt biologique: antipaludique et immunodilateurs. Project being carried out in collaboration with the IMRA (Madagascar) and the Museum d'Histoire Naturelle de Paris, funded by the French Government.

Dr D Jhurry and Dr A Bhaw-Luximon - Valorization of biopolymers (carrageenans, alginates) from the Mauritian marine environment (seaweeds and algae).

Dr R T Ramessur and M Eagle - (2002-2003): Groundwater Flux Studies in the Marine Environment in Mauritius using Radium Isotopes. US Fulbright Funding.

Prof S D D V Rughooputh and K Kelly - (2003): Strategy for Determining and Adapting to the Climate Change along the coast of Mauritius US Fulbright Funding.

CONSULTANCIES

Dr D Daby and Mr V Florens - Conservation and Management Plans for the Offshore Islets of Mauritius and Rodrigues. In collaboration with the University of Newcastle (UK) and the consulting firm AGRER (Brussels, Belgium).

Client: Ministry of Environment.

Dr D Jhurry - Determination of the chemical nature of materials used as filter papers and assessment of their quality.

Client: J. Etienne.

Dr D Jhurry - Quality Control of drugs/pharmaceuticals.

Client: Ministry of Health & Quality of Life and Pharmacie Nouvelle Ltd

Dr R T Ramessur - Water Quality Analyses.

Client: Mauritius Oceanographic Institute/Commission de L'Océan Indien.

AWARDS OF MPhil/PhD IN 2002/2003

NAME	STAFF/STUDENT
MPhil	
F B H Gunny	Student
PhD	
R Bholah	Student
V Hunma	Student
M D Manraj	Staff

EXTERNAL EXAMINERS

Name	University	Programme	Date of Visit
Prof H S Chowdrey	University of Westminster	BSc (Hons) Biomedical Sciences (Upgrading Programme)	09 June - 14 June 2003
Prof R A Cowley	University of Oxford	BSc (Hons) Physics	24 June - 03 July 2003
Dr D C Davies	St. George's Hospital Medical School	BSc (Hons) Medical Science	16 June - 26 June 2003
Prof M B A Djamgoz	Imperial College of Science, Technology & Medicine	BSc (Hons) Biology	15 June - 21 June 2003
Dr J M Kinser	George Mason University	MSc Computational Science	08 June - 14 June 2003
Dr P A Leiba	University St. Bartholomew	BSc (Hons) Nursing	28 June- 05 July 2003
Prof C W M McLeod	University of Sheffield	MSc Chemistry	01 Sept - 12 Sept 2002
Prof B M Novak	North Carolina State University	BSc (Hons) Chemistry	07 June - 16 June 2003
Prof D Porter	University of Reading	BSc (Hons) Mathematics	08 June -14 June 2003

APPOINTMENTS AND PROMOTIONS

Appointments

Name	Post	Effective Date
Mr D Persand	Research Assistant	02 September 2002
Miss Chitra Jhurry	Clerk	26 September 2002
Dr S Goorah	Assistant Lecturer/Lecturer	01 November 2002
Mr R Boojhawon	Assistant Lecturer/Lecturer	16 December 2002
Dr A Bhaw-Luximon	Assistant Lecturer/Lecturer	03 January 2003
Mrs N Peming	Technician/Senior Technician	03 March 2003
Mr Yasin Haukim	Administrative Assistant	20 March 2003
Mr M A Anathallee	Technician/Senior Technician	01 July 2003

Promotions

Name	Post	Effective Date
Dr M Bhowon	Associate Professor	01 September 2002
Dr R Dulymamode	Associate Professor	01 September 2002
Dr P Gorroochurn	Senior Lecturer	01 September 2002
Dr N H Issur	Associate Professor	01 September 2002
Dr S Jawaheer	Senior Lecturer	01 September 2002
Dr V Jowaheer	Senior Lecturer	01 September 2002
Dr A Khodabocus	Associate Professor	01 September 2002
Mrs N Bhajun	Executive Assistant	02 September 2002
Mrs P Fatadin	Executive Assistant	02 September 2002
Miss N Marianne	Senior Executive Assistant	02 September 2002
Mrs S D Gukhool	Senior Word Processing Operator	27 March 2003
Mrs S Padaruth	Senior Word Processing Operator	27 March 2003

STUDY ATTACHMENTS/VISITS

Mrs J Cheeneebash visited the Indian Statistical Institute of Bangalore, India under the TEC/UGC agreement, 21 December 2002 - 31 January 2003.

Dr D Daby visited the University of Uppsala (Sweden) to participate in the Linneaus-Palme Teaching Exchange Programme, 06 - 27 October 2002; University of Middlesex (UK), 27 - 30 October 2002; University of Bangor, Wales (UK), 31 October - 03 November 2002.

Mrs P Gonpot proceeded to University of Applied Sciences, Berlin, Germany, followed by an academic visit to Loughborough University, UK under a funded research programme entitled Technology of New Material by the German Academic Exchange Program, DAAD, 15 September - 15 December 2002.

Dr G Khittoo proceeded to University of Hawaii in connection with Learning and Applying Techniques of DNA Amplifications and Sequencing, 03 July - 28 August 2003.

Dr P Pugo-Gunsam visited the University of Manitoba, Canada under the ACU Titular Fellowship, 16 June - 23 July 2003.

Dr S P Seetulsingh-Goorah proceeded to UK under the British Council Link, 8 - 29 March 2003.

Mr R Somanah proceeded to Raman Research Institute, Bangalore, India in connection with the MRT Project and his PhD thesis, 01 February - 15 April 2003.

Professor S D D V Rughooputh visited CDAC/RRI/STPI, India in November 2002.

ATTENDANCE AT WORKSHOPS / CONFERENCES / MEETINGS

Mrs C Appadoo

- (i) UNESCO International Training Course on Biodiversity in Mangrove Ecosystems , Annamalai University, India, 06 -25 March 2003.
- (ii) Workshop on First Inventory of freshwater fish and macro-crustaceans present in the main rivers of Mauritius , Domaine les Pailles, 09 June 2003.

Dr T Bahorun

- (i) Seed and Plant Legislation , FARC Library and Documentation Centre, 23 January 2003.
- (ii) 4th International Conference , Pan Africa Environmental Mutagen Society (PAEMS), Cairo, Egypt, 03 - 07 March 2003

Dr D Baijnath - University Representative on 1st Meeting of the Task Force on Science & Technology (S&T) Foundation Access Course , Mauritius Research Council, 01 October 2002.

Dr S Bhagwant - 3rd Meeting of the Subcommittee on Laboratory Facilities for Mauritius Oceanographic Institute , Ministry of Environment, 29 July 2003.

Dr S Bhagwant and Prof S D D V Rughooputh - Study on Coastal Erosion in Mauritius , Villas Caroline Hotel, 05-06 May 2003.

Dr S Bhagwant, Prof S D D V Rughooputh and Dr S P Seetulsingh-Goorah - Validation workshop for Common Country Assessment for Mauritius , De Chazal Du MØe, 08 - 09 July 2003.

Dr M Bhikajee - 11th Meeting of the Western Indian Ocean Marine Science Association (WIOMSA) Board of Trustees and 2nd Meeting of the Country Coordinations , Mombasa, Kenya, 23 - 25 April 2003.

Dr M Bhikajee, Prof A Gurib-Fakim, Dr D Jhurry - Assises de la Recherche , St Denis, RØunion Island, 03 - 05 June 2003.

Dr M Bhuruth, Prof S D D V Rughooputh, Dr S P Seetulsingh-Goorah - Awareness Workshop on Intellectual Property Rights , MRC/Department of Science and Technology, Ministry of Science and Technology, India, Radisson Hotel, Mauritius, 28 - 29 August 2002.

Dr R Choolun - CIDMEF Conference , Phnom Penh, Cambodia, 21 - 28 February 2003.

Dr R Choong Kwet Yive

- (i) Priority Setting Meeting of GEF/UNEP RBA/PTS , Nairobi, Kenya, 30 October - 08 November 2002.
- (ii) Workshop on Health and Environment , Dakar, Senegal, 17 - 21 February 2003.
- (iii) Geneva Priority Setting Meeting for UNEP/GEF Regionally Based Assessment of Persistent Toxic Substances (RBA/PTS) Geneva, Switzerland, 18 - 20 March 2003; UNEP Workshop , Geneva, Switzerland, 24 - 27 March 2003.
- (iv) Task Force on Ballast Water Management , Ministry of Environment, 19 May 2003.
- (v) 1st Meeting of the Sub-technical Committee for reviewing the Drinking Water Standards, Review of Environment Protection (Drinking Water Standards) Regulations 1996 , Ministry of Environment, 21 May 2003.

Dr D Daby and Dr R T Ramessur - Short Course on Integrated Water Resources Management Catchment Ecology , Uppsala University, Sweden, 02 - 13 December 2002.

Mr V Florens

- (i) Meeting for the Advancement of Research in the Indian Ocean region , RØunion Island, 03 - 05 June 2003.
- (ii) International Symposium on Biotic Interactions in the Tropics , Scotland, 07- 11 July 2003.

Dr S Goorah and Dr S P Seetulsingh-Goorah - Postgraduate Studies in Paediatrics, Internal Medicine , Mauritius Institute of Health, 9-13 December 2002

Dr A Gopaul and Mr H K Kassean - International Careers Guidance Educational Fair , Exhibition Trade Centre (FOM) , Mer Rouge, 13 - 15 March 2003.

Prof A Gurib-Fakim

- (i) 3rd World Congress on Medicinal and Aromatic Plants for Human Welfare , Chiang Mai, Thailand, 01 - 08 February 2003.
- (ii) Medicinal Plants at the Centre for the Development of Enterprise, Brussels and Medicinal Plants Access, Use and Benefit sharing in the light of the CBD , University of Oslo, Norway, 31 March - 06 April 2003.

Mr B Jokhun - Regional Workshop on Laboratory Management by NUSESA , Nairobi, 15 - 22 March 2003.

Dr S Jhaumeer-Laulloo - 1st Meeting on the Revision on MS 105: 1989 - Specification for Rubber Gloves for Agricultural Use , Mauritius Standards Bureau, Moka, 22 July 2003.

Dr D Jhurry - Offer of Scholarship from New Zealand - CSFP - 2003/2004 , Ministry of Education & Scientific Research, 18 - 19 June 2003.

Dr S Oree, Dr S Jhaumeer-Laulloo, Dr A Gopaul, Dr S Goorah, Dr G Khittoo and Dr S Jawaheer - Annual Meeting of Agricultural Scientists (AMAS 2003), MSIRI, RØduit, 08 - 09 May 2003.

Dr P Pugo-Gunsam, Dr T Bahorun, Dr P Ramasami, Dr M Bhowon, Dr S Jhaumeer-Laulloo, Mr V Florens, Dr N Heeralall-Issur, Dr M F Lan Cheong Wah, Mr H K Kassean, Dr S K Ramchurn, Dr K Kis-Sion, Dr S Jawaheer, Dr V Jowaheer and Mrs J Cheeneebash - Postgraduate Certificate in Teaching and Learning in Higher Education for the module TAL 5011 , University of Mauritius, 30 September - 11 October 2002.

Dr P Ramasami - 17th International Conference on Chemical Education ; Beijing, China, 04 - 12 August 2002.

Dr R T Ramessur and Prof S D D V Rughooputh - WIOMAP and 1st IOGOOS Meeting ; International Conference Centre, Grand Baie, 1 - 9 November 2002.

Prof S D D V Rughooputh

- (i) Electric Load and Energy Management ; CEB, Domaine Les Pailles, Mauritius, 7 - 8 November 2002.
- (ii) UK Commonwealth Scholarship - 2003/2004 , Ministry of Education & Scientific Research, 26-29 December 2002
- (iii) NODC The Way Forward , NODC in collaboration with Mauritius Meteorological Services, Flic-en-Flac, 27-28 February 2003
- (iv) Conference of Rectors, Vice-Chancellors and Presidents of African Universities (COREVIP) , International Conference Centre, Grand Baie, 17 - 21 March 2003.

Dr S P Seetulsingh-Goorah

- (i) National Consultative Meeting for Needs Assessment and Priority Setting in Intellectual Property Rights and Biotechnology in Mauritius , University of Mauritius, 08 - 09 August 2002.
- (ii) How to be a Problem-based learning tutor in Medical Education , University of Manchester, UK, March 2003.
- (iii) Setting up of an Industrial Hygiene Laboratory , Ministry of Labour & Industrial Relations, 17 July 2003.
- (iv) Orthopaedics Training of Trainers Workshop , Mauritius Institute of Health, 16 - 20 December 2002.

Mr R Somanah - IAGA (Geomagnetism) Association of the International Union of Geodesy and Geophysics (IUGG) , Ministry of Environment, 15 May 2003.

Dr A H Subratty

- (i) Medical Waste Management Training Workshop , Pointe aux Piments, 17 - 20 March 2003.
- (ii) Training of Trainers Course on General Hazardous Waste Management , Pretoria, South Africa, 18 - 25 May 2003.

MEMBERSHIP OF NATIONAL & INTERNATIONAL ORGANISATIONS

Dr T Bahorun	Chairman, Food & Agricultural Research Council. Member, Wild Life and National Parks Advisory Council. Member, Joint Advisory Committee for the setting up of Bioinformatics Institute.
Mr V Florens	Member, Wild Life and National Parks Advisory Council.
Prof A Gurib-Fakim	University Representative, Academic Board of Mauritius Institute of Education.
Dr S Goorah	Member, Board of the Mauritius Institute of Health.
Dr N Heeralall-Issur	Member, Council, Mauritius Standards Bureau
Dr D Jhurry	Member, Task Force on Co-Development Programme Sugar Sector (Mauritius Sugar Authority). Member, Jury for the French Scholarships (French Embassy/Ministry of Education & Scientific Research).
Dr G Khittoo	Member, Food & Agricultural Research Council.
Dr P Ramasami	Associate Editor, Research Journal of Chemistry and Environment.
Dr R T Ramessur	Member, Organizing Committee, 1 st IOGOOS Conference, Mauritius Oceanographic Institute. Member, Organizing Committee, National Ocean Science Forum, Mauritius Oceanographic Institute.
Prof S D D V Rughooputh	Member, Scientific Committee, National Ocean Science Forum, Mauritius Oceanographic Institute. Member, ICZM Committee, Ministry of Environment.
Dr S P Seetulsingh-Goorah	Member, National Consultative Committee on Health Research, Mauritius Institute of Health. Member, Biomedical Steering Committee, Mauritius Research Council.
Dr A H Subratty	Member, Editorial Advisory Board of Pollution Research. Member, Editorial Advisory Board of Asian Journal of the Microbiology, Biotechnology and Environmental Sciences. Coordinator, University of Mauritius Publications Committee.

OTHER STAFF ACTIVITIES

- Dr S Bhagwant
- (i) Member, Steering Committee for UNDP/GEF National Capacity Self-Assessment Needs Projects
 - (ii) Member, Working Group on Biological Diversity, Ministry of Agriculture.
 - (iii) University Representative on Biodiversity Protocole, Ministry of Agriculture.
 - (iv) University Representative on Unit Standards for the Agriculture and Fisheries Sector under the aegis of the Mauritius Qualifications Authority.
- Dr S Bhagwant, Dr D Daby and Dr M Bhikajee - Participated in the National GOOS Coordination Committee (NGCC) and design of the products Directory, Vision Document and Biennial Report.
- Dr M Bhuruth - University Representative on the Committee on Science & Technology (S&T), Mauritius Research Council.
- Dr R Choong Kwet Yive - Sub-technical Committee, Drafting of a New Standards/Guidelines for Odours, Ministry of Environment.

Dr M Z Dauhoo - Faculty Representative on Lower Secondary Curriculum Committee , Ministry of Education & Scientific Research, 17 June 2003.

Mr V Florens - Consultant and participant in the shooting of a documentary on the Tambalacoque Tree by Tele-Image Nature , France.

Prof A Gurib-Fakim - Adjudication Committee, Examiners for PhD thesis of Mr John Tabuti with regard to the Doctor Scientarum Degree, University of Oslo, Norway, 14 - 18 May 2003.

Dr S Jhaumeer-Laulloo - University Representative at the Stakeholders Meeting: Chemical Information Exchange Network (CIEN), National Environmental Laboratory, RØduit, 21 November 2002.

Dr S Oree - Sub-technical Committee, Drafting of a New Legislation on Noise , Ministry of Environment.

Dr P Pugo-Gunsam - University Representative on Invasive Alien Species (IAS) Working Group in Mauritius at the National Parks and Conservation Service, Ministry of Agriculture, Food Technology and Natural Resources.

Prof S D D V Rughooputh

- (i) Followed the IIEP Distance Education Course on Management of University - Enterprise Partnerships and Income Generation.
- (ii) Chairman of Workshop NODC The Way Forward , NODC in collaboration with Mauritius Meteorological Services, Flic-en-Flac, 27-28 February 2003.
- (iii) Steering Committee on Science, Mauritius Research Council.

Dr A H Subratty - Referee for International Journals (Maturitas - The European Menopause Journal; Journal of Chemistry and Environment, and Discovery & Innovation, The African Academy of Sciences).

PRESENTATIONS AT CONFERENCES / WORKSHOPS

PAPER PRESENTATIONS

T Bahorun - Crataegus monogyna (Hawthorn) callus extracts: A rich source of antioxidant phenolics ; 3rd International Conference of the Society for Free Radical Research-Africa, Cape Town, South Africa, 07 - 11 October 2002.

M Bhikajee and S D D V Rughooputh - GNL04: Towards management-oriented marine science research: the contribution of the University of Mauritius ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003.

M Bhuruth - Analysis of a Fourth-Order Scheme for a Model 3-D Connection-Diffusion Problem ; 5th International Congress on Industrial and Applied Mathematics (ICIAM 2003), Sydney, Australia, 05 - 13 July 2003.

D Daby - Integrated Coastal Zone Management (ICZM) in Mauritius ; University of Middlesex (UK), 27 - 30 October 2002.

Y Gruet and S D D V Rughooputh - RMS01: Shoreline sensitivity mapping and analysis using GIS and the oil spill information system ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003

N Heeralall-Issur

- (i) Observations of the MSP J0437-4715 at 150 MHz with MRT Symposium S218: Young Neutron Stars and Their Environments; XXVth International Astronomical Union (IAU) General Assembly, Sydney, Australia, 13 - 26 July 2003.
- (ii) The Teaching of Astronomy in Mauritius Special Session 4 on the Effective Teaching and Learning of Astronomy; XXVth International Astronomical Union (IAU) General Assembly, Sydney, Australia, 13 - 26 July 2003.

K R Knee and S D D V Rughooputh

- (i) PSP02: Inter-Annual variations of sea level in the Indian Ocean ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003

(iii) PSP03: integrated impacts of climate change in the coastal zone of Mauritius ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003

R T Ramessur - Ocean Resource Exploitation of a Small Island State in the Indian Ocean - Mauritius - a case study ; International Ocean Institute (IOI) Cape Town, South Africa, 08 - 14 December 2002.

S D D V Rughooputh - RMS02: The GUMISERM Project and the marine and coastal zone information system ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003.

S D D V Rughooputh and H C S Rughooputh - GNL02: Coastal energy options for Mauritius ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003.

S D D V Rughooputh and B N K Peerally - PSP01: Tracking of cyclones within the proximity of Mauritius ; 1st National Ocean Science Forum, Mauritius, 18-19 July 2003.

INVITED TALKS/ORAL PRESENTATIONS

D Daby - Micro-zooplankton studies in Mauritius ; Conference on Plankton sampling & research programmes in Mauritius and Seychelles , Seychelles Marine Centre for Research & Technology, Seychelles, 1-4 April 2003.

V Florens, C Baider, D Florens and J C Sevathian - Decline of the Dodo-tree: a case of broken down interaction with extinct species or the result of new interactions with alien invaders? ; International Symposium on Biotic Interactions in the Tropics, Scotland, 07- 11 July 2003.

P Ramasami - Mathematics of the Balancing of Chemical Equations ; 17th International Conference on Chemical Education, Beijing, China, 04 - 12 August 2002.

S D D V Rughooputh

(i) Mauritius Marine and Coastal-Zone Information System ; 1st IOGOOS Meeting, International Conference Centre, Grand Baie, 1 - 9 November 2002.

(ii) GUMISERM- an EIS from the Educational Perspective , Workshop on NODC The Way Forward ; NODC in collaboration with Mauritius Meteorological Services, Flic-en-Flac, 27-28 February 2003.

POSTER PRESENTATIONS

S. Mutty and V Florens - Impact of the spreading alien grass *Panicum umbellatum* in Mauritian forests managed for conservation ; International Symposium on Biotic Interactions in the Tropics, Scotland, 07- 11 July 2003.

V Florens, D Florens, C Baider and J C Sevathian - Life on the edge for Mauritian mountain native trees ; International Symposium on Biotic Interactions in the Tropics, Scotland, 07- 11 July 2003.

PUBLICATIONS

SPECIALS

Haubold H J and Rughooputh S D D V, (Editors) - Astrophysics and Space Science (special issue), Volume 282, 2002.

JOURNALS & PROCEEDINGS

Appadoo C and Myers A A - The genus *Elasmopus* (Crustacea: Amphipoda: Melitidae) from Mauritius (Indian Ocean), with description of five new species ; Records of the Australian Museum 55 (1), 61-84, 2003.

Appadoo C and Myers A A - Observations on the tube-building behaviour of the marine amphipod *Cymadusa filosa* Savigny (Crustacea: Amphipoda) ; Journal of Natural History 37(18), 2151-2164, 2003.

Bhaw-Luximon A, Jhurry D, Belleney J, Goury V - Polymerization of α -methylglutamate NCA using Al-Schiff's base complexes as initiators ; *Macromolecules*, Vol 36, Issue 4, 977-982, 2003.

Bholah R and Subratty A H - Humid buildings in Mauritius ; *Indoor + Built Environment* 1-5, 2003.

Bhowon M G, Jhaumeer-Laulloo S and Rungasami P - Synthesis and Characterisation of some Transition metal Chelates of 2,2 -Dithiobenzoic Acid ; *Asian Journal of Chemistry* 15, No. 2, 1008-1012, 2003.

Bholah H and Subratty A H - Macrominerals deficiencies among pregnant Mauritian women ; *University of Mauritius Research Journal (Science & Technology)* 9, 139-148, 2002.

Daby D - Some quantitative aspects of seagrass ecology in a coastal lagoon of Mauritius ; *Marine Biology*, 142 (1): 193-203, 2003.

Daby D - Effects of seagrass bed removal for tourism purposes in a Mauritian bay ; *Environmental Pollution*, 125: 313-324, 2003.

Gurib F B H and Subratty A H - Effects of genestein, a tyrosine kinase inhibitor on TAME-esterase contractions in rat aorta in-vitro ; *Indian Journal of Experimental Biology* 40, 1191-1194, 2002.

Gurib F B H and Subratty A H - Effects of aspirin on N-d-tosyl L-arginine methyl ester TAME-esterase contractions in rat aorta in-vitro ; *Fundamental & Clinical Pharmacology* 17(1):71-75, 2003.

Jowaheer V and Subratty A H - Multiple logistic regression modeling substantiates multifactor contributions associated with sick building syndrome in residential interiors in Mauritius ; *International Journal of Environmental Health Research* 13, 73-82, 2003.

Narain R and Jhurry D - Hydrophilic-hydrophobic character of polymers derived from gluconolactone ; *The Journal of Nature* 2003, Tome 15, No. 1, 11-18, 2003.

Ramasami P - Solubilities of Amino Acids in Water and Aqueous Sodium Sulphate and Related Apparent Transfer Properties ; *J. Chem. Eng. Data*, 47, 1164-1166, 2002.

Ramasami P and Ramburrun P - Applications of Conductimetric Titrations ; *Res. J. Chem. Environ.*, 7(2), 48-53, 2003.

Ramasami P - A Concise Description of an old Problem: Application of Matrices to obtain the Balancing Coefficients of Chemical Equations ; *J. Math. Chem.*, 34, 123-129, 2003.

Ramasami P and Ramburrun P - Non-aqueous Conductimetric Titrations of Phenolic Compounds with Tetrabutylammonium Hydroxide and Amines against Perchloric acid in Acetonitrile Solvent ; *Asian J. Chem.*, 15(3&4), 1539-1544, 2003.

Ramessur R T and Khurun P - Trace metal levels from estuarine sediments in Mauritius ; *Journal de la Nature*, Vol 15 No. 1, 5-9, 2003.

Rondeau P, Sers S, Jhurry D, and Cadet F - Sugar interaction with metals in aqueous solution: indirect determination from Infrared spectroscopy and direct determination from NMR spectroscopy ; *Applied Spectroscopy*, Vol 57, No. 4, 2003.

Rughooputh H C S and Rughooputh S D D V - Neural Network Process Vision Systems for Flotation process , *Kybernetes: Int J Systems and Cybernetics*, Vol 31 (3/4), 529-535, 2002

Rughooputh S D D V, Beeharry G K, Golap K, Issur N H, Somanah R, Rughooputh H C S and Udayashankar N - Space Science and Technology in Mauritius: Current Status and future opportunities ; 11th United Nations/European Space Agency Workshop on Basic Space Science, 9-13 September 2002, Cordoba, Argentina.

Seetulsingh-Goorah S P and Bernard W Stewart - Characteristics of extracellular ATP (ATP_o)-induced cytotoxicity in human leukaemic cells ; *Journal of Nature*, Vol 15(1): 61-64, 2003.

Somanah R, Rughooputh S D D V & Rughooputh H C S - Identification and classification of galaxies using a biologically-inspired neural network ; Astrophysics and Space Science 282: 161-169, 2002

Subratty A H - Antioxidant status in bronchial asthma patients ; Indian Biologist 1 34 (1) 9-13, 2002.

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