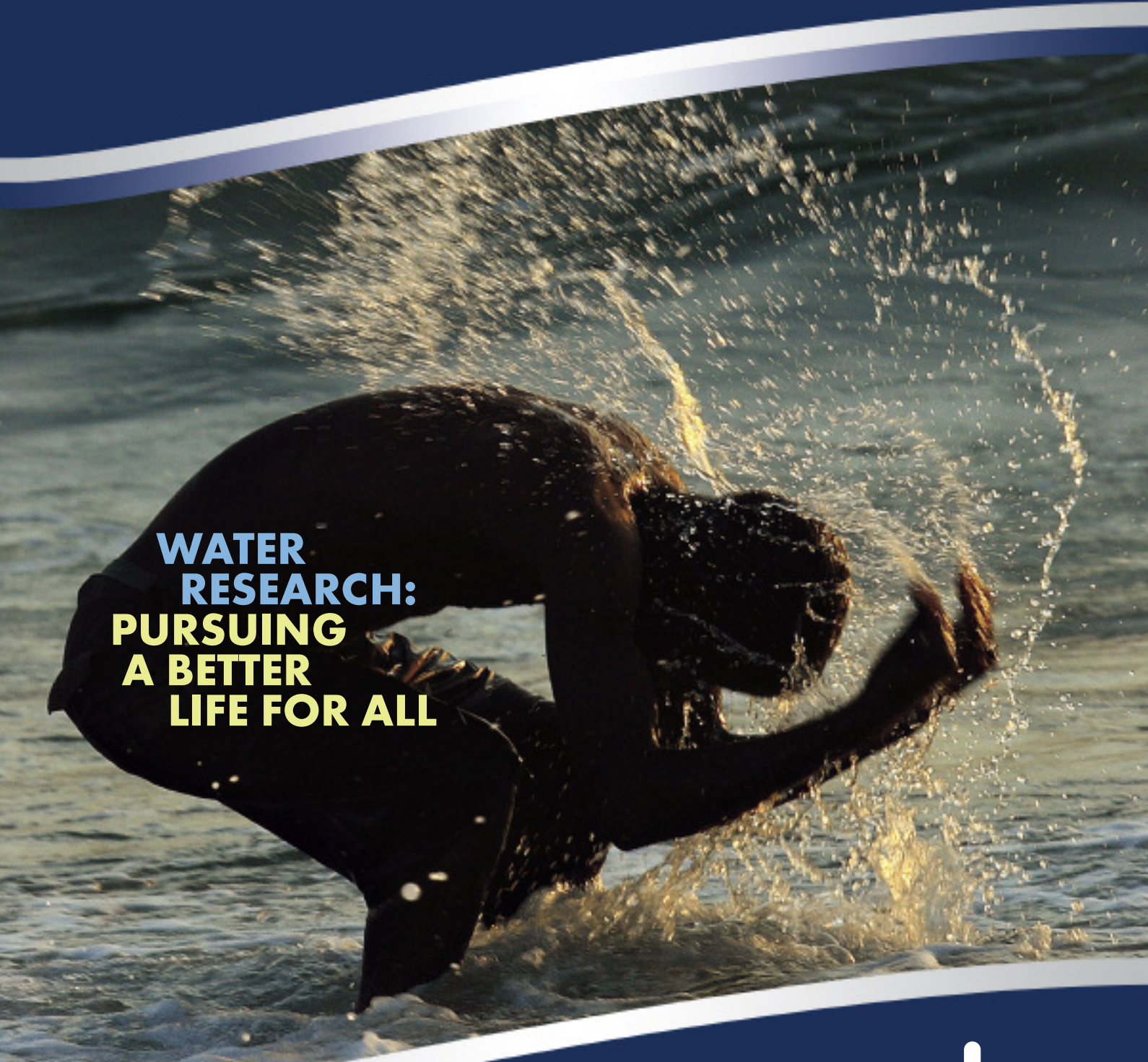


ScienceScope

QUARTERLY PUBLICATION OF THE CSIR | VOLUME 4 | NUMBER 2 | AUGUST 2009
SOUTH AFRICA'S COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH

www.csir.co.za



**WATER
RESEARCH:
PURSUING
A BETTER
LIFE FOR ALL**

CSIR

our future through science

Compiled by:
CSIR Communication

Editorial team:
Science communication manager:
Alida Britz

Editor:
Collette Vosloo

Writers:
Biffy van Rooyen
Chiara Lincoln
Hilda van Rooyen
Kamagelo Seekoei
Mzimasi Gcukumana
Petro Lowies
Wiida Basson

Contributors:
Bettina Genthe
Dr Bridget Crampton
Bruno Meyer
Caradee Wright
Christine Colvin
Daleen Lotter
David le Maitre
Dr James Dabrowski
Lara van Niekerk
Dr Maretha O'Kennedy
Maronel Steyn
Dr Phil Paige-Green
Dr Rachel Chikwamba
Robert Leyland
Dr Suzan Oelofse
Tinus Kruger
Willem de Lange

Printed on **Sappi Triple Green™** paper and using an environmentally-responsible manufacturing process. Sugar cane fibre (bagasse) is used – a fast growing, annually renewable resource. All pulp is bleached using an elemental chlorine-free process, complying with stringent regulations of the US Environmental Protection Agency and the World Health Organization. Pulping chemicals go through a chemical recovery plant, waste water undergoes rigorous treatment and solid waste is recovered to use as soil enhancer to regenerate harvested sugar cane fibre lands. Sugar cane fibre, chlorine-free, sustainable afforestation.

Design and production:
Loretta Steyn Graphic Design Studio
Cover image:
Rudi van Aarde
Printing:
Ultra Litho

THE CSIR'S OPERATING UNITS, NATIONAL RESEARCH CENTRES AND SERVICES

> **CSIR Biosciences**

Pretoria 012 841-3260
Modderfontein 011 605-2700

> **CSIR Built Environment**

Pretoria 012 841-3871
Stellenbosch 021 888-2508

> **CSIR Defence, Peace, Safety and Security**

Pretoria 012 841-2780

> **CSIR Materials Science and Manufacturing**

Pretoria 012 841-4392
Johannesburg 011 482-1300
Port Elizabeth 041 508-3200
Cape Town 021 685-4329

> **CSIR Modelling and Digital Science**

Pretoria 012 841-3298

> **CSIR Natural Resources and the Environment**

Pretoria 012 841-4005
Johannesburg 011 358-0000
Stellenbosch 021 888-2400
Durban 031 242-2300
Pietermaritzburg 033 260-5446
Nelspruit 013 759-8036

> **CSIR Consulting and Analytical Services**

Pretoria 012 841-2525
Stellenbosch 021 658-2766
Cottesloe 011 482-1300
Modderfontein 011 605-2452

> **Meraka Institute**

Pretoria 012 841-3028
Cape Town (Centre for High Performance Computing) 021 658-2740

> **CSIR National Laser Centre**

Pretoria 012 841-4188

> **CSIR Satellite Applications Centre**

Hartebeesthoek 012 334-5000

www.csir.co.za ISSN 1017-4966

Enquiries: (012) 841-2000 callcentre@csir.co.za

CSIR

our future through science