

## ANNOUNCEMENT

### 1st SOUTH AFRICAN CONFERENCE ON APPLIED MECHANICS '96

1st-5th July 1996, Eskom Midrand, Gauteng, South Africa

Incorporating: 4th National Symposium on CFD  
14th Symposium on FEMSA  
5th SA Aerospace Engineering Conference  
Annual Seminar of the Strain Society of SA

#### SCOPE

Four well-established meetings in the field of computational, theoretical and applied mechanics are being held jointly, with the aims of providing inter-disciplinary discussion and increasing international participation.

#### CALL FOR PAPERS

Contributions are welcomed in all areas of computational, theoretical and applied mechanics. Papers on industrial applications are especially invited. Abstracts of no more than 400 words are requested. The following topics are included:

#### CFD (Computational Fluid Dynamics):

Incompressible and compressible flow • Multigrid methods • Parallel and superconducting • Turbulence modelling • Grid generation • Heat transfer • Industrial applications • Combustion • Computational algorithms • Innovations in pre- and post-processing

#### FEMSA (Finite Element Methods):

Theoretical and applied structural mechanics • Finite element, finite difference and boundary element methods in structures • Multi-disciplinary analysis and design • Design optimization • Composites • Structural dynamics • Material and geometric nonlinearity • Rigid and flexible multibody dynamics • Computation Fluid Dynamics • Constitutive modeling • Fracture mechanics • Plates and Shells

#### AEROSPACE ENGINEERING:

Aerodynamics • Aircraft structures • Flight dynamics • Propulsion systems • Control systems • Flight testing • Manufacturing techniques • Aircraft maintenance • Gas dynamics • Aviation/Industry related topics • Aerospace • Missiles

#### STRAIN:

Applications of strain measurement • Strain and stress measurement devices • All strain related topics

The identities of the participating conferences would be largely maintained through parallel sessions.

#### WHO SHOULD ATTEND?

The conferences are aimed at attracting both researchers from academic institutions and persons in industry involved in practical applied mechanics. The nature and scope of the joint conference are such that as wide a representation as possible is strived for.

#### CONFERENCE COMMITTEE

B. Sunden – Lund University of Technology, Sweden  
R.W. Lewis – University of Wales, Swansea, U.K.  
C. Yates – Virginia Tech, U.S.A.  
J.A. Visser – University of Pretoria  
K.J. Craig – University of Pretoria  
N. Stander – University of Pretoria  
I.M.A. Gledhill – Aerotek, CSIR  
M.N. James – University of the Witwatersrand  
A. Nurick – SA Institute of Aerospace Engineering  
M.A. Stone – SA Institute of Aerospace Engineering  
C.G. du Toit – Potchefstroom University of CHE  
B. D. Reddy – University of Cape Town  
T.W. von Backström – University of Stellenbosch  
M. van Staden – Eskom TRI

#### CONFERENCE CO-ORDINATORS

LGI Short Courses. Tel. +27 12 436625. Fax. +27 12 3424151.

#### WORKSHOPS

Workshops are being planned on the first day of the conference. Details will follow with the second announcement.

**FEE STRUCTURE (Inclusive of 14% VAT)**

	4 day	per day
Early bird registration (Deadline: 1 April 1996)	R1700	R450
Late registration	R1950	R520
Student	R680	R170
Workshop		R450

The above amounts include lunch, refreshments and conference proceedings.

**To register contact:**

Toy Bester,  
SACAM '96,  
PO Box 30536,  
Sunnyside 0132.  
Tel: 27-(0)12-436625.  
Fax: 27-(0)12-3424151.  
e-mail: crai-kj@fanella.ee.up.ac.za

**EXHIBITION**

Space will be provided for exhibitors at the conference.

**VENUE AND LOCATION**

The Eskom Midrand conference facility is situated in Midrand, located 20km from Pretoria, the capital of South Africa and 30km from Johannesburg, the largest metropolitan area in Africa. An International airport is 30km away. The facility is situated in the Gauteng province, which has the highest urban population in South Africa and houses the largest economic activity. Gauteng is centrally placed for African adventures and the conference is to be held in the best game viewing and hunting season. Post-conference tours are being planned.