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Issue 2 2007

A Letter From the Editor

Heavy Mettle - Leon Liebenberg (81KB)

Innovation News

- **Study of Worldwide Quality of Life 2006**
- **The World's Top Ten Companies with regard to R & D Expenditures**
- **Designed to reinvent the wheel**
- **Old to new**
- **Silver lining**
- **Maestro of the house, with a remote**
- **Nanotechnology used for cleaner water**
- **Striking a cord**
- **Just add water**
- **Sleeping easy is a weighty matter for newborns**
- **Developing a human-like robot arm** - Johan & Tania Hanekom
- **Construction awards for Marion island research base**
- **New welding technology is flaming hot**
- **Establishing a virtual national address database** - Serena Coetzee
- **Scooting electrically**
- **Welcome to the fabulous world of fabrication** - Naas Zaayman

Features

- **Building a bridge from the studio to the townships** - Amira Osman (565KB)
- **The Wall, exploring the legacy of techtronics** (126KB)

Essays

- **Students' work well received in Spain** (326KB)
- **Retrieving inofrmation in one language via another** - Erica Cosijn, Theo Bothma, Heikki Keskustalo, Ari Pirkola & Kalervo Jarvelin (381KB)
- **Linguistic information - a humanistic endeavour** - Jan H Kroeze (42KB)
- **Computers in support of history research** - Stefan Gruner (234KB)
- **The buzz of business intelligence** - Pieter J Conradie (157KB)
- **Sea(ling) the rust** - Chris Pistorius (133KB)
- **Understanding the trickle** - Philip de Vaal (192KB)
- **The freedom to design** - Graham Young (310KB)
- **Measuring Innovation** - Andre Buys (127KB)
- **Objective classification of two-phase regimes** - Leon Liebenberg and Josua Meyer (133KB)

Student Projects

- **Multi purpose batch process heat integration** - Bjanca Jovancic (76KB)
- **All about Elvis** (66KB)
- **Designing a low noise propeller for an unmanned aeriel vehicle** - H Peter Visser (167KB)
- **Packing sphere beds to simulate transient solid conduction** - Cecelia van der Merwe (63KB)
- **Engineering the future** - Gerhard Hancke (67KB)
- **Engineering takes off among youngsters** - Sholain Govender (54KB)
- **Designed for success** (65KB)
- **Shifting the frontiers** - Peter Kluge (57KB)
- **Simulation model takes top honours** (74KB)
- **Giving the environment a break** - Frane van Zyl (74KB)
- **Digital image processing measures flexural strains** - Emile Horak (90KB)
- **Innovation generation commercialises technology** (97KB)
- **A new signature on the block** (97KB)
- **Understanding metal accross the spectrum** - Chris Pistorius (149KB)

Community Development

- **Project Pumascope benefits both students and rural educators** - Hein Venter (62KB)
- **Making problems work** - Linda Marshall (62KB)

- **The project school** - Felix le Roux (33KB)

Quotable Quotes

- **Prof Josua Meyer** (42KB)
- **Mr Mosibudi Mangena** (46KB)

Achievements

- **University of Pretoria receives IEEE award** - Janine Smit (56KB)
- **Heinrich Wolff scoops Daimlerchrysler award for Aouth African Architecture 2007** (81KB)
- **Touching the stars** - Charlotte van Rensburg (46KB)

Book Review

- **Practical Mathematical Optimization** - Jan A Snyman

Last Word

- **The path to innovation** - Stefan Gruner (74KB)