Chief editor
A Swanepoel

Scientific editors
Dr Samuel Alabi  Nigeria  Breeding
Dr Sarel Broodryk  South Africa  Entomology
Dr Roy Cantrell  USA  Breeding
Dr Greg Constable  Australia  Breeding
Dr John Gorham  UK  Physiology/Biochemistry
Dr Kater Hake  USA  Biotechnology
Dr Rory Hillocks  UK  Plant pathology
Dr Lawrence Hunter  South Africa  Fiber quality
Dr Geoff McIntyre  Australia  Irrigation/Water stress
Dr Jodi McLean  Australia  Agronomy
Dr Mustafa  Sudan  Breeding
Dr Bruce Pyke  USA  Extension
Dr Derek Russell  UK  Entomology
Dr Shuki Saranga  Israel  Agronomy
Ms Jeannie Van Biljon  South Africa  Nematology

Managing editor
A Swanepoel
World Cotton Research Conference (3rd: 2003: Cape Town, South Africa)

Proceedings of the World Cotton Research Conference-3:
Chief editor: A. Swanepoel

1. Cotton – Research – Conference
I. Swanepoel, A. (Annette)


Publisher: Agricultural Research Council - Institute for Industrial Crops
Layout and design: D.Comm
Print: D.Comm

In preparing the proceedings of the World Cotton Research Conference-3, the editors have made a good faith effort to avoid any errors, omissions or other editing mistakes in the process of converting presentations and papers into these proceedings. However, the editors cannot ensure against all such errors.
ORGANISING COMMITTEE

International organizing committee

Dr Terry P Townsend (Chairman) Executive Director of the International Cotton Advisory Committee
Dr Jean-Philippe Deguine Deputy Director, CIRAD-CA, France
Peter Griffe Plant Production and Protection Division, FAO, Italy
Dr Francisco Davila-Ricciardi President, CONALGODON, Columbia
Dr Andrew Jordan Technical Director, National Cotton Council of America, USA
Dr Joe CB Kablssa General Manager, Tanzanian Cotton Lint and Seed Board, Tanzania
Dr Abdusattor Abdukarimov Director General, Institute of Genetics & Plant Exp. Biology, Uzbekistan
Mr Ralph Schulze (Chairman WCRC-1) Executive Director, Cotton Research & Development Corporation, Australia
Dr Kiratso Kosmldou-Dlmltropoulou Director, Hellenic Cotton Board, Greece
(Chairman WCRC-2) Dr Deon Joubert (Chairman WCRC-3) Director, ARC Institute for Industrial Crops, South Africa

National organizing committee

Chairman Dr Deon Joubert, Director ARC Institute for Industrial Crops
Secretary Ms Jeannie van Biljon, Snr Researcher, ARC Institute for Industrial Crops
Members Mr Hennie Bruwer, CEO Cotton SA
Mr Hein Schrader, Quality Control Cotton SA
Mr Chris Nolte, Clark Cotton

Cape Town, South Africa, 9-13 March 2003
SPONSORS

ABSA
Agricultural Research Council
CIRAD-CA
Clark Cotton
Cotton SA
CTA
D&PL International
Danida
deNim
FAO
Frame Textiles
GTZ
ICAC
Monsanto
Rockefeller Foundation
SA Cotton Trust
SACTMA
SBH Cotton Mills
Scientific Committee

Prof Lawrence Hunter  
Divisional Fellow and Leader: Scientific and Technical Excellence,  
Division of Manufacturing and Materials Technology of the CSIR and  
Professor Extraordinary and Head of the post-graduate Department of  
Textile Science, University of Port Elizabeth

Prof Sakkie Pretorius  
Professor and chairperson – Department of Plant Sciences, University of the Free State

Ms Annette Swanepoel  
Senior researcher – ARC-Institute for Industrial Crops

Dr Martie Botha  
Senior researcher – ARC-Institute for Industrial Crops

Dr Frans Weltz  
Plant systematist – Department of Biodiversity and Conservation Biology, University of Western Cape

Dr Deon Joubert  
Director – ARC-Institute for Industrial Crops

Dr Chris Steenkamp  
Consultant

Dr Sarel Broodryk  
IPM Advisor

Prof Maryke Labuschagne  
Professor, Department of Plant Sciences, University of the Free State

Dr Graham Thompson  
Assistant Director, ARC-vegetable and Ornamental Plants Institute

Mr Jean-Luc Hof  
Researcher – Department of Plant Production and Soil Science, University of Pretoria

Prof Charles Reinhardt  
Professor and Head of the Department – Plant Production and Soil Science, University of Pretoria
Limits of measuring short fiber content by high volume instrument
ABSTRACT

Many attempts are currently ongoing to measure or estimate the short fiber content in raw cotton by High Volume Instrument (HVI). Up to now, a fiber is considered “short” if its length is lower than 12.7 mm, even if it is not proven that this is the most efficient number to be taken into consideration for this categorization. We used different tools allowing a comparison between results from AFIS and HVI distributions for different types of materials and cottons. Our conclusions could highlight a technical limit in the HVI technology for measuring that criteria on actual HVI.