

## PROGRAM

# SEVENTH AUSTRALIAN COTTON CONFERENCE

(organised by the Australian Cotton Growers  
Research Association - ACGRA)

HOTEL CONRAD AND JUPITERS CASINO  
BROADBEACH, GOLD COAST, QUEENSLAND

## THEME: The Fabric of Success

### TUESDAY AUGUST 9TH 1994

- |                 |   |                                   |
|-----------------|---|-----------------------------------|
| 12 NOON         | - | Registration Desk Opens           |
| 6:30pm - 8:30pm | - | Welcome reception at Hotel Conrad |

### WEDNESDAY AUGUST 10TH 1994

- |               |   |  |
|---------------|---|--|
| 7am           | - | Registration Desk re-opens   |
| 8:30am        | - | Welcome by <b>Dick Browne</b><br>(Auscott Ltd - Moree NSW)<br>Chairman of Conference Organising<br>Committee.<br>Chairman of Board of the Co-operative<br>Research Centre for Sustainable<br>Cotton Production |
| 8.35 - 8.50am | - | Official Opening Address   |

8:50am

- **Integrated Pest Management**

- Chairman - **Dr Lewis Wilson**  
CSIRO Cotton Research Unit,  
Australian Cotton Research Institute,  
Narrabri, NSW.

8:50 - 9:00am

- **Dr Vic Edge**  
Deputy Chief NSW Agriculture Division  
of Plant Industries.  
Director NSW Agriculture  
Biological & Chemical Research  
Institute, Rydalmere, NSW.  
Director Cotton Research &  
Development Corporation.  
Director of Co-operative  
Research Centre for Sustainable  
Cotton Production.

- Integrated Pest Management Options  
for the Australian Cotton Industry.

Pages 1 - 6

9:00 - 9:10am

- Questions

9:10 - 9:20am

- **Dr Neil Forrester**  
Senior Research Scientist,  
NSW Agriculture, Australian Cotton  
Research Institute, Narrabri, NSW

- Management of Resistance in  
HELICOVERPA ARMIGERA in Australia

Pages 7 - 15

9:20 - 9:30am

- Questions

9:30 - 9:40am

- **Bruce Pyke**  
Technology Transfer Co-Ordinator,  
Cotton Research & Development  
Corporation Narrabri, NSW.

- The Mirid Problem and Options for  
Management.

Pages 35 - 44

9:40 - 9:50am

- Questions

### III

- 9:50 - 10.00am - **Dr Peter Gregg**  
Associate Professor in Pest Biology,  
University of New England, Armidale,  
NSW.
- HELICOVERPA Predators: Do We Know  
Anything About Them?  
Pages 45 - 50
- 10.00 - 10:10am - Questions
- 10:10 - 10:40am - Morning tea
- 10.40am - Integrated Pest Management-  
Continued
- Chairman -  
**David Hamilton**  
Regional Manager -  
Queensland Dept of Primary Industries  
Toowoomba, QLD.  
Director, Cotton Research &  
Development Corporation.
- 10:40 - 10:50am - **Dr David Murray**  
Principal Entomologist,  
Queensland Dept of Primary Industries  
Toowoomba, QLD.
- Beneficials Parasitising Heliothis:  
Augmentation and Efficacy  
Pages 51 - 55
- 10:50 - 11:00am - Questions
- 11:00 - 11:10am - **Dr Robert Mensah**  
NSW Agriculture, Australian Cotton  
Research Institute, Narrabri NSW.
- Can Beneficial Insects be Conserved  
in Cotton Fields?  
Pages 87 - 93

IV

- 11:10 - 11:20am - Questions
- 11:20 - 11:30am - **Dr. Lewis Wilson,**  
Senior Research Scientist,  
CSIRO Cotton Research Unit,  
Australian Cotton Research Institute,  
Narrabri NSW.
- Mites - Lessons from the 1993/1994  
season
- Pages 101 - 105
- 11:30 - 11:40am - Questions
- 11:40 - 11:55am - **Dr Gary Fitt**  
Program Leader,  
CSIRO Cotton Research Unit,  
Australian Cotton Research Institute,  
Narrabri, NSW.
- Transgenic Cotton: Its Place in  
Integrated Pest Management.
- Pages 121 - 129
- 11:55 - 12:45pm - Forum on Bt Management
- Dr. Gary Fitt** (Co-ordinator)
- Dr. Neil Forrester**  
NSW Agriculture, Narrabri, NSW.
- Brian Arnst**  
Monsanto Australia Ltd,  
Melbourne.Vic..
- John Grellman,** Merah North, NSW.  
Director of Cotton Seed Distributors  
Ltd, Director Cotton Research &  
Development Corporation.
- Richard Leske**  
Plant Breeder,  
Deltapine Australia Pty.Ltd,  
Goondiwindi,QLD.
- Tony McAlary**  
Macquarie Cotton Grower's  
Association, Warren, NSW.

**Dr. Jim Peacock**

Chief, CSIRO Division of Plant  
Industry, Canberra, ACT.  
Director of Co-operative  
Research Centre for Sustainable  
Cotton Production.  
Director of Cotton Research &  
Development Corporation.

**Michael Tichon**

Abbott Australasia Pty Ltd,  
Sydney, NSW.

12:45pm - 2:05pm

- BUFFET LUNCH IN HOECKERDROME

2.05pm

- **Integrated Pest Management  
Continued**

- Chairman  
**Dick Browne,**  
Auscott Ltd, Moree, NSW  
Chairman - ACGRA

2.05 - 2.15pm

- **Lance McKewen,**  
CSIRO Cotton Research Unit,  
Australian Cotton Research Institute,  
Narrabri, NSW

- Management Tools for Integrated Pest  
Management; entomoLOGIC's Role

Pages 155 - 169

2.15 - 2.25pm

- Questions

2:25pm

- **Organic Cotton**

- Chairman  
**Dick Browne**  
Auscott Ltd, Moree, NSW  
Chairman - ACGRA

2:25 - 2.35pm -

**Ms. Ruth Lovisolo,**  
Principal Executive Officer,  
International Food Standards Policy,  
Australian Quarantine & Inspection  
Service, D.P.I.E. Canberra. ACT.

- National Standards and Certification  
of Organic Produce

Pages 181 - 185

# VI

- 2:35 - 2:45pm - Questions
- 2:45 - 2:55pm - Video on Organic Cotton Production
- 2:55 - 3:20pm - Forum Session on Organic Cotton
- **David Williams,**  
Secretary, Standards Council,  
Biological Farmers of Australia.  
Breeza, NSW.  
**Harvey Baker**  
Australian Cotton Foundation Ltd,  
Sydney, NSW.  
**Jeff Bidstrup**  
Cotton Grower, Warra, QLD.  
**Dr.David Murray**  
QLD DPI, Toowoomba, QLD.  
**Hans Woldring,**  
Consultant,  
Hassall & Associates P/L,Dubbo.NSW.
- 3:20 - 4:00pm - AFTERNOON TEA
- 4:00pm - Raingrown Cotton
- Chairman  
**John Stewart**  
Cotton Consultant,Goondiwindi,QLD.  
Member of ACGRA Committee
- 4:00 - 4:10pm - **Dr Greg Constable**  
Principal Research Scientist,  
CSIRO Cotton Research Unit,  
Australian Cotton Research Institute,  
Narrabri, NSW.  
Executive Director of Co-operative  
Research Centre for Sustainable  
Cotton Production.
- Raingrown Cotton Varieties.
- Pages 203 - 209
- 4:10 - 4:20pm - Questions

# VII

- 4:20 - 4:30pm - **Ian Titmarsh**  
Queensland Dept. of Primary  
Industries, Biloela, QLD.
- Insect Control Techniques Under  
Raingrown Cotton  
Pages 211 - 215
- 4:30 - 4:40pm - Questions
- 4:40 - 4.55pm - **Gus Shaw**  
Program Leader, Cotton,  
NSW Agriculture, Australian Cotton  
Research Institute, Narrabri, NSW.
- Introduction to Raingrown Cotton  
Video
- 4.55 - 5:45pm - Panel Session on Rainfed cotton  
systems; row configurations,  
planting, rotations
- **John Stewart**  
Cotton Consultant, Goondiwindi, QLD.  
**Charles Clark**  
Cotton Grower, Goondiwindi, QLD.  
**Jeff Bidstrup**  
Cotton Grower, Warra, QLD  
**Ian Horneman**  
Cotton Grower, Croppa Creek, NSW  
**Ray Pengelly**  
Cotton Grower, Bowenville, QLD.  
**Brian and Graham Thibault**  
Cotton Growers, Gunnedah, NSW.
- 5:45pm - CLOSE

WEDNESDAY EVENING FREE

Thursday August 11th 1994

- 7:30am - Registration Desk re-opens
- 8:30am - **Agronomy and Production**
- Chairman  
**Richard Haire**  
 Chief Executive Officer, Queensland  
 Cotton Corporation Ltd, Brisbane.  
 Director, Australian Cotton  
 Foundation Ltd.  
 Director of Co-operative Research  
 Centre for Sustainable Cotton  
 Production.
- 8:30 - 8:40am - **Adam Kay**  
 District Agronomist,  
 NSW Agriculture, Warren, NSW.
- Introduction to Video on Rotations
- 8:40 - 8:50am - **Dick Browne**  
 General Manager,  
 Auscott Ltd, Moree, NSW.
- Limited Water Strategies in Irrigated  
 Cotton.
- Pages 239 - 245
- 8:50 - 9.00am - Questions
- 9:00 - 9:15am - **Dr Stephen Allen**  
 Plant Pathologist, NSW Agriculture,  
 Australian Cotton Research Institute,  
 Narrabri, NSW.
- Disease Management - An Overview
- Pages 247 - 252
- 9:15 - 9:25am - Questions



IX

- 9:25 - 9:35am - **Roger Shaw**  
Principal Scientist,  
(Salinity & Contaminant Hydrology)  
Queensland Dept. of Primary  
Industries, Brisbane, QLD.
- Salinity in Cotton Areas  
Pages 279 - 288
- 9:35 - 9:45am - Questions
- 9:45 - 9:55am - **Dr Graham Charles**  
Research Agronomist (Weeds)  
NSW Agriculture, Australian Cotton  
Research Institute, Narrabri, NSW.
- Successful Nutgrass Control in Cotton  
Pages 289 - 294
- 9:55 - 10:05am - Questions
- 10:05 - 10:45am - Morning tea
- 10:45am - **Agronomy and Production**  
(Continued)
- Chairman  
**Iain Worrall**  
Chief Executive Officer, Namoi Cotton  
Co-operative Ltd, Wee Waa, NSW.  
Director of Cotton Research &  
Development Corporation.
- 10:45 - 10:55am - **Murray Schoenfish**  
Engineering Department,  
University of Southern Queensland,  
Toowoomba, QLD.
- Automatic Guidance for Farming  
Tractors  
Pages 303 - 308
- 10:55 - 11:05am - Questions

- 11:05 - 11:15am - **Graham Harden**  
Plant Pathologist/Agronomist,  
Queensland Dept. of Primary  
Industries, Emerald, QLD.
- Premature Senescence, Potassium and  
Cotton Growth
- Pages 309 - 314
- 11:15 - 11:25am - Questions
- 11:25 - 11:35am - **Ian Rochester**  
CSIRO Division of Plant Industry,  
Canberra, ACT.
- Efficient Nitrogen Management in  
Cotton
- Pages 323 - 326
- 11:35 - 11:45am - Questions
- 11:45 - 11:55am - **David Nehl**  
Department of Botany,  
University of New England, Armidale,  
NSW.
- Mycorrhizas and Early Season Growth  
Disorder: The Lazy Cotton Plant gets  
into Trouble
- Pages 337 - 347
- 11:55 - 12:05pm - Questions
- 12:05 - 1.:30pm - LUNCH IN HOECKERDROME
- 1:30pm - **Beyond the Farm Gate**
- Chairman  
**Dr. John Blood**  
Scoresby, VIC.  
Chairman of Cotton Research &  
Development Corporation.  
Director of Co-operative Research  
Centre for Sustainable Cotton  
Production.

# XI

- |               |   |   |
|---------------|---|---|
| 1:30 - 1:50pm | - | Keynote Address:<br><b>Dr. Lawrence Shaw</b><br>Executive Director,<br>International Cotton Advisory<br>Committee, Washington, USA.   |
|               | - | Cotton to the Consumer<br><br>Pages 439 - 445   |
| 1:50 - 2:05pm | - | <b>Dr Tom Kerby</b><br>Director of Technical Services,<br>Delta and Pine Land Company, Scott,<br>Mississippi, USA.                    |
|               | - | Fibre Quality on the Plant<br><br>Pages 447 - 456   |
| 2:05 - 2:15pm | - | Questions   |
| 2:15 - 2:25pm | - | <b>Robert Baird</b><br>Queensland Cotton Corporation Ltd,<br>Brisbane, QLD.<br>Chairman, Cotton Classer's<br>Association of Australia |
|               | - | Introduction to Video on<br>Contamination of Cotton   |
| 2:25 - 2:35pm | - | <b>Robert Baird</b><br>Queensland Cotton Corporation Ltd.,<br>Brisbane QLD.<br>Chairman, Cotton Classer's<br>Association of Australia |
|               | - | Cotton Quality - Harvest and Module<br>Storage<br><br>Pages 457 - 467   |
| 2:35 - 2:45pm | - | Questions   |
| 2:45 - 2:55pm | - | <b>Heather Ball and Trevor Dawson</b><br>Rocklea Spinning Mills Pty. Ltd,<br>Abbotsford, Vic.   |
|               | - | Fibre Quality - What are the Markets<br>Demanding?<br><br>Pages 469 - 472   |
| 2:55 - 3:05pm | - | Questions   |

- 3:05 - 3:45pm - AFTERNOON TEA
- 3:45pm - **Farm Management**
- Chairman  
**David Farley**  
 Managing Director, Colly Farms Ltd,  
 Moree, NSW.  
 Director Australian Cotton Foundation  
 Ltd.
- 3:45 - 4:00pm - **Dr Lyn Clarke**  
 Area Medical Superintendent,  
 Moree District Hospital NSW.
- Agricultural Health in the Cotton  
 Industry
- Pages 473 - 478
- 4:00 - 4:10pm - Questions
- 4:10 - 4:20pm - **Jim Watson**  
 Combroom Pty. Ltd., Sydney, NSW.
- Farm Safety - What can Farmers Do?
- Pages 479 - 487
- 4:20 - 4:30pm - Questions
- 4:30 - 4:50pm - **Tony Long**  
 Michael Boyce & Co, Moree, NSW.
- The Big Picture:  
 Comparative Analysis and the  
 Concept of Best Practice
- Pages 489 - 497
- 4:50 - 5:00pm - Questions
- 5:00pm - **CLOSE**
- 7:45pm for 8:00pm - **CONFERENCE DINNER AT HOTEL CONRAD**
- Presentation of the Researcher of  
 the Year Awards for 1993 and 1994
- Presentation of Service to Industry  
 Awards for 1993 and 1994
- Guest Speaker

FRIDAY AUGUST 12TH 1994

- 7:30am - Conference desk re-opens
- 8:40am - **Water Issues and the Environment**
- Chairman  
**Sherman Railsback**  
Managing Director, Auscott Ltd,  
Sydney, NSW.
- 8:40 - 8:55am - **Bruce Loder**  
Executive Chairman,  
Auscott Ltd, Sydney, NSW.  
Irrigators Council of NSW Ltd,  
Deputy Chairman, Australian Cotton  
Foundation Ltd.
- Overview of Water Issues Affecting  
Cotton Production.
- Pages 499 - 505
- 8:55 - 9:05am - Questions
- 9:05 - 9:15am - **Garry McDouall**  
Chairman, North-West Catchment  
Management Committee, Bingara, NSW.
- The Role of Total Catchment  
Management in Water Management
- Pages 507 - 514
- 9:15 - 9:25am - Questions
- 9:25 - 9:35am - **Don Dyer**  
Director, Land and Water Resources  
Research & Development Corporation,  
Canberra, ACT.
- Minimising the Impact of  
Pesticides in the Riverine  
Environment.
- Pages 563 - 566
- 9:35 - 9:45am - **Dr Ivan Kennedy**  
Reader in Agricultural Chemistry,  
The University of Sydney, NSW.
- The Fate and Transport of Chemicals  
on Farm  
Pages 515 - 522

# XIV

- |                 |   |  |
|-----------------|---|--|
| 9:45 - 9:55am   | - | <b>Nicholas Woods</b><br>Director, The Centre for Pesticide<br>Application & Safety (C-PAS)<br>The University of Queensland,<br>Gatton College, QLD. |
|                 | - | Studies on the Aerial Application<br>of Pesticides   |
|                 |   | Pages 523 - 529  |
| 9:55 - 10:05am  | - | <b>Ian Smalls</b><br>Department of Water Resources,<br>Parramatta, NSW.  |
|                 | - | BIOTA Studies and Water Quality<br>Issues.   |
|                 |   | Pages 567 - 571  |
| 10:05 - 10:20am | - | Questions  |
| 10:20 - 10:55am | - | MORNING TEA  |
| 10:55am         | - | <b>Water Issues and the Environment</b><br>(Continued)   |
|                 | - | Chairman<br><b>Alan Brimblecombe,</b><br>Forest Hill, QLD.<br>Chairman, Australian Cotton<br>Foundation Ltd.   |
| 10:55 - 11.05am | - | <b>Dr John Skerrett</b><br>CSIRO Division of Plant Industry,<br>Canberra, ACT.   |
|                 | - | Checking Water for Pesticide<br>Contamination  |
|                 |   | Pages 531 - 534  |
| 11:05 - 11:15am | - | Questions  |
| 11:15 - 11:30am | - | <b>Dr. Chris Mitchell</b><br>CSIRO Division of Atmospheric<br>Research, Aspendale. VIC.  |
|                 | - | Predictions of Long Term Climatic<br>Patterns  |
| 11:30 - 11:40am | - | Questions  |

- |                 |   |   |
|-----------------|---|---|
| 11:40 - 11:55am | - | <b>Richard Whitaker</b><br>NSW Manager, Special Services Unit,<br>Bureau of Meteorology, Sydney, NSW.                               |
|                 | - | Advances in Weather Forecasting<br><br>Pages 535 - 540  |
| 11:55 - 12:05pm | - | Questions   |
| 12:05 - 12:20pm | - | <b>Ian Searle</b><br>Senior Cloud Seeding Consultant,<br>Hydro-Electric Commission,<br>Hobart, Tasmania.                            |
|                 | - | Cloud Seeding: A Method of Increasing<br>Catchment Runoff<br><br>Pages 541 - 546  |
| 12:20 - 12:30pm | - | Questions   |
| 12:30 - 12:45pm | - | <b>Mike Bryant</b><br>Senior Project Director,<br>Centre for Water Policy Research,<br>University of New England,<br>Armidale, NSW. |
|                 | - | New Water Allocation Systems for<br>Irrigators<br><br>Pages 547 - 556   |
| 12:45 - 12:55pm | - | Questions   |
| 12:55 - 1.00pm  | - | Close<br><b>Dick Browne</b><br>Chairman, ACGRA.   |
| 1:00 - 2:00pm   | - | <b>Lunch in Hoeckerdrome</b>  |
| 2:00pm          | - | Industry Group Meetings<br><br>Resistance Strategy<br>Bt Management<br>Fibre Technology<br>Others to be advised                     |