

13th International Conference on Development of Drylands (ICDD)

Day 1: 11 Feb 2019 (Monday)

Venue: Hotel Indana Palace, Jodhpur

09:00-11:00 Inaugural Session

Co-chairs: Dr. T. Mohapatra, Director General, ICAR & Secretary, DARE, Government of India
Prof. Dr. Adel El-Beltagy, Chair, International Dryland Development Commission (IDDC),
Cairo, Egypt

Chief Guest: **Yet to be decided**

Welcome: Dr. O.P. Yadav, Chairman, AZRAI and Director, ICAR-CAZRI, Jodhpur, India

Address:

Mr. Aly Abousabaa, Director General, ICARDA, Beirut, Lebanon
Dr. Peter Carberry, Director General, ICRISAT, Patancheru, India
Dr. Martin Kropff, Director General, CIMMYT, Texcoco, Mexico
Dr. Claudia Sadoff, Director General, IWMI, Colombo, Sri Lanka
Dr. R.S. Paroda, Chairman, TAAS, New Delhi, India
Dr. Panjab Singh, President, NAAS, New Delhi, India
Prof. Dr. Adel El-Beltagy, Chair, International Dryland Development Commission
Dr. T. Mohapatra, Director General, ICAR and Secretary, DARE, Government of India

Inaugural Address by Chief Guest

Vote of Thanks - Dr. R.S. Tripathi, Convener, National Advisory Committee & National
Coordinator, CAZRI, Jodhpur, India

11:00- 11:30 *Group Photo & Tea*

11:30-13:00 Plenary Session 1

Co-Chairs: Dr. T. Mohapatra, Director General, ICAR & Secretary, DARE, Govt. of India
Mr. Aly Abousabaa, Director General, ICARDA, Beirut, Lebanon

Plenary Lecture 1: Prof. Dr. Adel El-Beltagy, Chair, IDDC, Cairo, Egypt

(Navigating Through Uncertainties: Agro-Ecosystems Affected by Dynamic
Impact of Climate Change)

Plenary Lecture 2: Dr. Martin Kropff, Director General, CIMMYT, Texcoco, Mexico

(Maize and Wheat Science for Alleviating the Pressure on Natural Resources in
Drylands)

Plenary Lecture 3: Dr. M. Ann Tutwiler, Director General, Bioversity International, Rome, Italy

13:00-14:00 Lunch

14:00-16:30 Plenary Session 2

Co-chairs: Dr. Raj Paroda, Chairman, TAAS, New Delhi, India

Dr. Martin Kropff, Director General, CIMMYT, Texcoco, Mexico

Plenary Lecture 4: Mr. Aly Abousabaa, Director General, ICARDA, Beirut, Lebanon

(Role of traditional knowledge combined with new innovative technologies in
achieving livelihood resilience in dry areas in the face of changing climate)

Plenary Lecture 5: Dr. Peter Carberry, Director General, ICRISAT, Hyderabad

(Yet to confirm)

Plenary Lecture 6: Prof. Dr. Magdy Madkour, Professor, ALARI, Cairo, Egypt

(Gene Editing for Adaptation of Dryland Crops to Changing Climate)

Plenary Lecture 7: Prof. Ayman F. Abou Hadid, Professor, ALARI, Cairo, Egypt
(Sustainable Intensification and Diversification in Drylands: Role of Protected Agriculture and Arid Horticulture)

Plenary Lecture 8: Ms. Maria Beatix Giraudo, Senior Advisor to Govt. of Argentina
(No Till-based sustainable production systems for Converting Dryland Areas from Grey into Green. The experience of AAPRESID)

16:30-17:00 Tea

17:00-18:30 Poster Session (Themes 1, 2, 3 and 4)

18:30-19:30 Cultural Program

20:00 Reception Dinner

Day 2: 12 Feb 2019 (Tuesday)

09:00-10:30 Plenary Session 3

Co-chairs: Dr. Panjab Singh, President, NAAS, New Delhi, India
Dr. Peter Carberry, Director General, ICRISAT, Hyderabad, India

Plenary Lecture 9: Dr. John M. Dixon, Former Principal Adviser- Research/ Manager, Cropping Systems and Economics Program, ACIAR, Australia
(Conservation Agriculture for Sustainable Intensification for Dry Areas)

Plenary Lecture 10: Dr. Claudia Sadoff, Director General, IWMI, Colombo, Sri Lanka
(Water Security and Sustainable Growth in Drylands)

Plenary Lecture 11: Prof. Hisashi Tsujimoto, Professor, Tottori University, Tottori, Japan
(Development of innovative germplasm for wheat breeding for dry and heat-prone agro-environment of Sub-Saharan Africa)

10:30-10:45 Tea

10:45-13:00 Technical Sessions 1, 2, 3 and 4 (Concurrent)

Technical Session 1: Impact of Climate Change in Drylands (Theme 1)

Co-chairs: Dr. B. Venkateswarlu, Former Vice-chancellor, VNMKV, Parbhani
UNCCD representative

Lead Lecture 1: Prof. P.K. Aggarwal, Director, South Asia, CGIAR-CCAFS, New Delhi, India

Lead Lecture 2: Prof. Guram Aleksidze, President, GAAS, Georgia

Lead Lecture 3: Dr. K. Sami Reddy, ICAR-CRIDA, Hyderabad

Lead Lecture 4: Dr. S. Bhaskar, ADG (AAF&CC), ICAR, New Delhi, India

Rapid Presentations: 5 presentations of 5-7 minutes each

Technical Session 2: Managing Land Degradation & Desertification (Theme 2)

Co-chairs: Dr. A.S. Faroda, Former Chairman ASRB, New Delhi
Prof. Atsushi Tsunekawa, Professor, Tottori University, Tottori, Japan

Lead Lecture 1: Prof. Mitsuru Tsubo, Professor, ALRC, Tottori University, Japan

Lead Lecture 2: Dr. Amal Kar, Ex-Head, NRE, ICAR-CAZRI, Jodhpur, India, India

Lead Lecture 3: Dr. P.C. Sharma, Director, ICAR-CSSRI, Karnal, India

Lead Lecture 4: Dr. D.K. Sharma, Scientist – Eminence, ICAR-CSSRI RRS, Lucknow, India

Lead Lecture 5: Dr. S.K. Singh, Director, ICAR-NBSS&LUP, Nagpur, India

Rapid Presentations: 5 presentations of 5-7 minutes each

Technical Session 3: Soil Health Management, Carbon Sequestration and Conservation Agriculture (Theme 3)

Co-chairs: Dr. Gurbachan Singh, Former Chairman, ASRB, New Delhi, India
Dr. Alok K. Sikka, IWMI, New Delhi, India

Lead Lecture 1: Dr. S.K. Choudhary, ADG (S&WM), ICAR, New Delhi, India

Lead Lecture 2: Dr. A.K. Patra, Director, ICAR-IISS, Bhopal, India

Lead Lecture 3: Dr. M.L. Jat, Cropping Systems Agronomist, CIMMYT, New Delhi, India

Lead Lecture 4: Dr. Praveen Kumar, Head of Division, ICAR-CAZRI, Jodhpur, India

Rapid Presentations: 5 presentations of 5-7 minutes each

Technical Session 4: Conservation & Use of Agrobiodiversity; Developing Adapted Cultivars (Theme 5)

Co-chairs: Dr. B.S. Dhillon, Vice-chancellor, PAU, Ludhiana, India
Prof. Magdy Madkour, ALARI, Cairo, Egypt

Lead Lecture 1: Dr. Michael Baum, Director BIGM, ICARDA, Beirut, Lebanon

Lead Lecture 2: Dr. Rajeev Varshney, Director, Genetic Gain, ICRISAT, Hyderabad, India

Lead Lecture 3: Dr. Usha Barwale Zehr, Director & CTO, MAHYCO, Jalna, India

Lead Lecture 4: Dr. J. Rane, ICAR-NIASM, Baramati, India

Lead Lecture 5: Dr. Kuldeep Singh, Director, ICAR-NBPGR, New Delhi, India

Rapid Presentations: 4 presentations of 5-7 minutes each

12:00-13:00 Discussion on Climate Change (Climate change in the region and the possible measures needed for adaptation to them, The RACC framework) **10 participants (Participation only by invitation):** Working Lunch Session

13:00-14:00 Lunch

14:00-16:00 Satellite Symposium (2 parallel sessions)

1. Genomics and Big Data Analysis in Dryland Agriculture – ICRISAT, Hyderabad, India
2. Crop Improvement for Sustainable Production in Marginal Regions – ALRC, Tottori, Japan & ICARDA, Beirut, Lebanon

16:00-16:30 Tea

16:30-18:00 Poster Session (Themes 5, 6, 7, 8 and 9)

18:00-19:00 Evening Lecture 1

Dr. Ismail Serageldin, Founder President, Bibliotheca Alexandrina, Egypt
(Climate Change as a Trigger to Poverty and Outmigration in the Dry Areas)

Co-chairs: Dr. Adel El-Beltagy, Chair, ICDD, Cairo, Egypt

Dr. Raj Paroda, Chairman, TAAS, New Delhi, India

Day 3: 13 Feb 2019 (Wednesday)

09:00-10:30 Plenary Session 4

Co-chairs: Dr. J.S. Samra, Ex-CEO, NRAA, New Delhi, India

Dr. Ayman F. Abou Hadid, Professor, ALARI, Cairo, Egypt

Plenary Lecture 12: Dr. Dennis Garrity, Dryland Ambassador for UNCCD, Nairobi, Kenya

Plenary Lecture 13: Prof. Dr. Atsushi Tsunekawa, ALRC, Tottori University, Tottori, Japan
(Sustainable Land Management to convert areas from grey to green)

Plenary Lecture 14: Prof. Dr. Wang Tao, President Lanzhou Branch of CAS, Lanzhou, China
(Science and Policy Interacted for Combating Desertification in China)

10:30-10:45 Tea

10:45-13:00 Technical Sessions 5, 6, 7 and 8 (Concurrent)

Technical Session 5: Water Harvesting & Improving Water Productivity (Theme 4)

Co-chairs: Dr. A.K. Singh, Secretary, NAAS, New Delhi, India
Prof. Abd Elghany El-Gindi, Coordinator, On-Farm Irrigation Management Program,
Egypt

Lead Lecture 1: Dr. Tushaar Shah, IWMI, Anand, India

Lead Lecture 2: Dr. Alok K. Sikka, IWMI Representative, New Delhi, India

Lead Lecture 3: Dr. B. Venkateswarlu, Former Vice-chancellor, VNMKV, Parbhani, India

Lead Lecture 4: Dr. S.K. Ambast, Director, ICAR-IIWR, Bhubaneswar, India

Rapid Presentations: 5 presentations of 5-7 minutes each

**Technical Session 6: Conservation & Use of Agrobiodiversity, Developing Adapted Cultivars
(Theme 5)**

Co-chairs: Dr. J.S. Sandhu, Vice-chancellor, NDUAT, Faizabad, India
Dr. H.S. Gupta, Former DG, BISA, Ludhiana

Lead Lecture 1: Prof. Dr. Rodomiro Ortiz, Swedish University of Ag. Sciences, Uppsala, Sweden

Lead Lecture 2: Dr. P. Anand, Pioneer Hi-Bred Private Limited, Hyderabad, India

Lead Lecture 3: Dr. B.M. Prasanna, CIMMYT, Nairobi, Kenya

Lead Lecture 4: Dr. Tara Sathyvathi, PC, AICRP on Pearl millet, Jodhpur, India

Lead Lecture 5: Dr. R.K. Bhatt, ICAR-CAZRI, Jodhpur, India

Rapid Presentations: 3-4 presentations of 5-7 minutes each

**Technical Session 7: Sustainable Intensification & Diversification (Arid Horticulture, Aquaculture,
Protected Agriculture) (Theme 6)**

Co-chairs: Dr. J.K. Jena, DDG (FS), ICAR, New Delhi, India
Dr. S.K. Malhotra, Commissioner (Agriculture), Govt. of India, New Delhi, India

Lead Lecture 1: Dr. Balraj Singh, VC, AU, Jodhpur, India

Lead Lecture 2: Dr. P.L. Saroj, Director, CIAH, Bikaner, India

Lead Lecture 3: Dr. Gopal Lal, Director ICAR-NRCSS, Ajmer, India

Lead Lecture 4: Prof. Mohamed Fathy Osman, Emeritus Prof., Ain Shams University, Cairo, Egypt

Lead Lecture 5: Dr. Ravinder Chary, Director, ICAR-CRIDA, Hyderabad

Lead Lecture 6: Dr. Ashutosh Sarker, Coordinator, ICARDA's Regional Program for South Asia and
China, New Delhi, India

Rapid Presentations: 3 presentations of 5-7 minutes each

Technical Session 8: Livestock, Rangeland and Agroforestry Management (Theme 7)

Co-chairs: Dr. A.K. Srivastava, Chair, ASRB, New Delhi
DDG, ICRAF, Nairobi, Kenya

Lead Lecture 1: Dr. Gurbachan Singh, Former Chair ASRB, New Delhi, India

Lead Lecture 2: Dr. P.K. Ghosh, Ex. Director, ICAR-IGFRI, Jhansi, India

Lead Lecture 3: Dr. A.K. Tomar, Director ICAR-CSWRI, Avikanagar, India

Lead Lecture 4: Dr. J. Rizvi, Regional Director, South Asia Region, ICRAF, New Delhi, India

Lead Lecture 5: Dr. N.V. Patil, Director, NRC Camel, Bikaner, India

Rapid Presentations: 5 presentations of 5-7 minutes each

13:00-14:00 Lunch

14:00-16:00 Satellite Symposium (2 parallel sessions)

3. Dryland Agrobiodiversity for Adaptation to Climate Change – ISPGR/Bioversity International/APAARI
4. Mainstreaming Water Productivity in Drylands – IWMI & ICAR

16:00-16:30 Tea

16:30-18:30 CAZRI Visit

18:30-19:30 Evening Lecture 2

Prof. Rattan Lal, Director, Carbon Management & Seqn. Center, OSU, Ohio
(Re-carbonizing Soils of Global Drylands)

Co-chairs: Dr. Ismail Serageldin, Founder President, Bibliotheca Alexandrina, Alexandria, Egypt

Dr. John M. Dixon, Former Principal Adviser- Research/ Manager, ACIAR, Australia

19:30-20:00 M.S. Swaminathan Award Function - organized by TAAS

20:00-20:15 Honorary Fellowship Award Function – organized by AZRAI

Day 4: 14 Feb 2019 (Thursday)

09:00-10:30 Plenary Session 4

Co-chairs: Prof. Mohan C. Saxena, Executive Secretary, ICDD
Dr. P.K. Joshi, Director, South Asia, IFPRI, New Delhi

Plenary Lecture 15: Prof. Dr. Michael Reid, Emeritus Professor, Dept. of Plant Sci., UC Davis, CA, USA
(Post-harvest processing, storage and marketing of dried products: Tools for the Dry Chain)

Plenary Lecture 16: Dr. O.P. Yadav, Director, ICAR- CAZRI, Jodhpur, India
(Enhancing Resilience of Arid Lands: Indian Experience)

Plenary Lecture 17: Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM, Hyderabad, India
(Synergy of Research-Technology-Policy Implementation for Resilient Rainfed-Dryland Production Systems)

10:30-10:45 Tea

10:45-13:00 Technical Sessions 9, 10, 11 and Symposium 5 (Concurrent)

Technical Session 9: Conservation & Use of Agrobiodiversity, Developing Adapted Cultivars (Theme 5)

Co-chairs: Dr. K.V. Prabhu, Chairman, PPVFRA, New Delhi, India
Dr. B.M. Prasanna, CIMMYT, Nairobi, Kenya

Lead Lecture 1: Dr. P.H. Zaidi, CYMMIT, Hyderabad, India

Lead Lecture 2: Dr. S.K. Gupta, ICRISAT, Hyderabad, India

Lead Lecture 3: Dr. N.P. Singh, Director, ICAR-IIPR, Kanpur, India

Lead Lecture 4: Dr. Balram Sharma, IARI, New Delhi, India

Rapid Presentations: 7 presentations of 5-7 minutes each

Technical Session 10: Post Harvest Management, Value Chain, Renewable Energy, Farm Mechanization and Automation (Theme 8)

Co-chairs:

Prof. Dr. Michael Reid, Emeritus Professor, Dept. of Plant Sci., UC Davis, CA, USA
Dr. N.S. Rathore, DDG-Edn., ICAR, New Delhi, India

Lead Lecture 1: Dr. K. Alagusundaram, DDG (Ag. Eng.), ICAR, New Delhi, India

Lead Lecture 2: Dr. J.S. Samra, Former DDG (NRM) and Former Chairman, NRAA, New Delhi, India

Lead Lecture 3: Dr. K.K. Singh, Director, ICAR-CIAE, Bhopal, India

Lead Lecture 4: Dr. S.N. Jha, ADG (PE), ICAR, New Delhi, India

Lead Lecture 5: Dr. Dilip Jain, Head, Division of AE & RE, ICAR-CAZRI, Jodhpur, India

Lead Lecture 6: Dr. Dayakar Rao B., PS, ICAR-IIMR, Hyderabad, India

Lead Lecture 7: Dr. P. Santra, Principal Scientist, ICAR-CAZRI, Jodhpur, India

Lead Lecture 8: Prof. Abd Elghany El-Gindy, Emeritus Professor, ALARI, Cairo, Egypt

Rapid Presentations: 3 presentations of 5-7 minutes each

Technical Session 11: Policies, Institutions & Markets to Improved Livelihood Security (Theme 9)

Co-chairs: Dr. Ashok Kumar Singh, DDG-Ag. Extn., ICAR, New Delhi, India
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Lead Lecture 1: Dr. Aliaa Refea, Professor Women's College, Chair & Founder, The Human Foundation, Cairo, Egypt

Lead Lecture 2: Dr. P.K. Joshi, Director South Asia, IFPRI, New Delhi, India

Lead Lecture 3: Dr. Suresh Pal, Director, ICAR-NCAP, New Delhi, India

Lead Lecture 4: Prof. Kristina Toderich, ALRC, Tottori University, Tottori, Japan

Lead Lecture 5: Mr. Konda Reddy Chavaa, Asst. FAO Representative India, FAO, New Delhi, India

Rapid Presentations: 3-4 presentations of 5-7 minutes each

10:45-13:00 Satellite Symposium 5:

Arid Agro-ecosystems: Challenges and Opportunities – AZRAI & Kirk House Trust

13:00-14:00 Lunch

14:00-16:00 Policy Dialogue- Converting Dryland Areas from Grey into Green

Chair: Prof. Ramesh Chand, Member, *Niti Aayog*, Government of India, New Delhi

Co-chair: Prof. Dr. Adel El-Beltagy, Chair, International Dryland Development Commission, Former Minister of Agriculture and Land Reclamation, Cairo, Egypt

Dr. Ashok Dalwai, CEO, National Rainfed Area Authority, Government of India, New Delhi

Panelist

1. Dr. Raj Paroda, Chairman, TAAS, New Delhi, India
2. Dr. Panjab Singh, President, NAAS, New Delhi, India
3. Sh. Pawan Kumar Goyal, Additional Chief Secretary - Agriculture, Rajasthan, India
4. Dr. Aly Abousabaa, Director General, ICARDA, Beirut, Lebanon
5. Ms. Maria Beatix Giraud, Former President, AAPRESID, Senior Advisor to Govt. of Argentina
6. Prof. Wang Tao, President, Lanzhou Branch of CAS, China
7. Prof. Atsushi Tsunekawa, Professor, ALRC, Tottori University, Tottori, Japan

8. Prof. Academician Guram Aleksidze, President, GAAS, Georgia
9. Dr. S.K. Malhotra, Commissioner (Agriculture), Govt. of India, New Delhi, Indi
10. Prof. Mohamed F. Osman, Former Chair, General Authority for
Fish resources Development (GAFRD), Egypt

16:00-16:30 Tea

17:00-19:30 Valedictory Function

Chief Guest: Prof. Ramesh Chand, Member, National Institution for Transforming India (*NITI Aayog*), Government of India, New Delhi, India

Co-Chairs: Prof. Dr. Adel el-Beltagy, Chair, IDDC, Cairo, Egypt
Dr. R.S. Paroda, Chairman, TAAS, New Delhi, India

Opening Remarks Prof. Dr. Adel El-Beltagy, Chair, IDDC, Cairo, Egypt
Dr. R.S. Paroda, Chairman, TAAS, New Delhi, India

Presentation of Recommendations Prof. Mohan C. Saxena

Adoption of Jodhpur Declaration Dr. O.P. Yadav

Address by Chief Guest Prof. Ramesh Chand

Vote of Thanks AZRAI