

REGISTRATION FORM

ICAR-CSSRI GOLDEN JUBILEE INTERNATIONAL SALINITY CONFERENCE

**Resilient Agriculture in Saline Environments under
Changing Climate: Challenges & Opportunities
(RAISE - II)**

7-9 February 2019, Karnal-132001 (Haryana), India

Name : _____ Telephone (Res.) : _____
 Designation : _____ Residence/Mobile: _____
 Sex: M/F : _____ Fax : _____
 Telephone (Off.) : _____ E-mail : _____
 Organization : _____
 Mailing Address : _____

Accompanying Person:

Whether Participating in the Conference : Yes/No
 Whether Presenting a Paper : Yes/No
 Title of Paper : Paper : Oral/Poster
 Whether Participating in the Exhibition : Yes/No
 Whether Participating in Technical/Post Conference Tours : Yes/No

PARTICULARS OF REGISTRATION FEE

Registration fees paid in the form of Online/Cheque/DD
 Amount Rs: _____ (In words) _____
 Cheque/ Demand Draft No: _____, Date: _____
 Name of the Bank/Branch : _____

Signature of Participant

MODE OF PAYMENT

Payment through Online/Cheque/DD drawn in favour of "Indian Society of Soil Salinity and Water Quality" payable at Karnal, Haryana, India (Preferably Online transfer)

Bank Details for Electronic Transfer:

Name of the Bank : State Bank of India
 Bank address : The Mall, Karnal -132001 (Haryana), INDIA
 Saving Account No : 30451467955
 IFSC Code for RTGS : SBIN0000665
 Cash payment will not be entertained

ADDRESS FOR CORRESPONDENCE

Organizing Secretary, RAISE -II

ICAR-Central Soil Salinity Research Institute,
 Kachhwa Road Karnal-132001 (Haryana), India

Web: www.cssri.org; E-mail: isswq2008@gmail.com; salinitysocietykarnal@gmail.com

INTERNATIONAL ADVISORY COMMITTEE

Chairman: Dr. Trilochan Mohapatra, Secretary DARE & Director General, ICAR, New Delhi

Members: Dr. R.S. Paroda, Ex Secretary, DARE & Ex-DG ICAR, New Delhi

Dr. Gurbachan Singh, Ex Chairman, ASRB, New Delhi

Dr. Ismahane Elouafi, DG, ICBA, Dubai (UAE)

Dr. Martin Kropff, DG, CIMMYT and BISA, Mexico

Dr. D.R. Bhumbra, Ex DDG, ICAR (NRM)

Dr. I.P. Abrol, Ex-DDG, ICAR (NRM)

Dr. David Bergvinson, DG, ICRISAT, Hyderabad

Dr. Mathew Morrel, DG, IRRI, Phillipines

Dr. Panjab Singh, President, NAAS, New Delhi

Dr. Masa Iwanaga, President, JIRCAS, Japan

Dr. Aly Abou Sabaa, DG, ICARDA, Jordan

Dr. Tony Simons, DG, ICRAF, Kenya

Dr. N.T. Singh, Ex Director, CSSRI, Karnal

Dr. N.K. Tyagi, Ex Member, ASRB, New Delhi

Dr. B.S. Dhillon, VC, PAU, Ludhiana

Dr. A.K. Singh, VC, RVSKVV, Gwalior

Dr. B.R. Chhipa, VC, SKRAU, Bikaner

Dr. P.S. Rathore, VC, SKN Agri. Univ., Jobner

Dr. K.P. Singh, VC, CCSHAU, Hisar & MPHU, Karnal

Dr. D.D. Patra, VC, BCKV, Kalyani

Dr. B. Mishra, Ex VC, SKUAST, Jammu

Dr. Shoaib Ismail, Director RAI, ICBA, Dubai

Dr. Satoshi Tobita, JIRCAS, Japan

Dr. M. Moinuddin, CSIRO, Canberra, Australia

Dr. Abdelbagi Ismail, IRRI, Phillipines

Dr. Darshan Sharma, DAFWA, Australia

Dr. Steve Adkin, Queensland, Australia

Dr. R.S. Yadav, IBERS, Aberystwyth, UK

Dr. R.K. Singh, ICBA, Dubai

Dr. P.C. Sharma, Director, CSSRI, Karnal and Organizing Secretary

NATIONAL STEERING COMMITTEE

Chairman : Dr. Gurbachan Singh, Ex Director, CSSRI and Ex Chairman, ASRB, New Delhi

Members : DDG (NRM), ICAR New Delhi

Dr. Raj K Gupta, Ex Advisor, BISA, Ludhiana

Dr. P.K. Joshi, IFPRI, South Asia, New Delhi

Dr. P.S. Minhas, Ex Director, NIASM, Baramati

Dr. N.P. Singh, Director, NIASM, Baramati

Dr. J.C. Dagar, Ex ADG (AAF), ICAR, New Delhi

Dr. S.K. Chaudhari, ADG (SWM), ICAR, New Delhi

Dr. O.P. Yadav, Director, CAZRI, Jodhpur

Dr. A.K. Patra, Director, IISS, Bhopal

Dr. H.S. Sen, Ex Director, CRIJAF, Kolkata

Dr. S.K. Singh, Director, NBSS&LUP, Nagpur

Dr. S.K. Ambast, Director, IIWM, Bhubaneswar

Dr. S. Bhaskar, ADG (AAF & CC), ICAR, New Delhi

Dr. S.P. Kimothi, ADG (Coordination), ICAR, New Delhi

Dr. D.L.N. Rao, Ex PC, IISS, Bhopal

Dr. R.R.B. Singh, Director, NDRI, Karnal

Dr. G.P. Singh, Director, IIW&BR, Karnal

Dr. Arjava Sharma, Director, NBAGR, Karnal

Dr. Ravinder Kaur, Ex Director, IARI, New Delhi

Dr. Hide Omae, JIRCAS, Okinawa, Japan

Dr. Biswapati Mandal, BCKV, Mohanpur

Dr. M.L. Jat, CIMMYT, New Delhi

Dr. M. Gathala, CIMMYT-Bangladesh

Dr. Rizvi, Incharge, ICRAF Reg. Centre India

Dr. Ashwani Pareek, Prof. JNU, New Delhi

Dr. N.K. Singh, NRCPB, New Delhi

Mr. Ajay Yadav, IAS, MD UPLDC, Lucknow

Dr. Jagdeep Brar, MD HLRDC, Panchkula

Dr. Vijay Kumar Arora, CCSHAU, Karnal

Dr. Yash Sahrawat, ICARDA, New Delhi

Dr. P.C. Sharma, Director, CSSRI, Karnal and Organizing Secretary

ORGANIZING COMMITTEE

Chairman : Dr. P.C. Sharma, Director, CSSRI, Karnal

Members : Dr. P.S. Minhas, Ex Director NIASM and Emeritus Scientist, Karnal

Dr. D.K. Sharma, Ex Director CSSRI, Karnal and Emeritus Scientist, Reg. Station Lucknow

Dr. J.C. Dagar, Ex ADG (AAF), ICAR, New Delhi

Dr. S.K. Gupta, Ex. PC (SAS&UAS), Karnal

Dr. S.K. Kamra, Emeritus Scientist, Karnal

Dr. V.R. Babu, Ex Director, IIRR, Hyderabad

Dr. P.L. Saroj, Director, CIAH Bikaner

Dr. K. Sami Reddy, Director, CRIDA Hyderabad

Dr. Gopal Lal, Director, NRCSS Ajmer

Dr. PK Joshi, Ex Vice President, ISSSWQ

Dr. G.G. Rao, Ex Head, ICAR-CSSRI, RRS, Bharuch

Dr. S.K. Dubey, Head, IISWC, RRS, Agra

Dr. P. Dey, PC, (Micronutrient) IISS, Bhopal

Dr. O.P. Chaudhary, PAU, Ludhiana

Dr. Vishwanath Jowkin, UAS, Gangawati

Dr. P. Balasubramaniam, TNAU, Trichy

Dr. Neeraj Kulshrestha, Head, SBI, RRS, Karnal

Dr. V. K. Mishra, Head, CSSRI, RRS, Lucknow

Dr. A.R. Chinchmalatpure, Head, CSSRI, RRS, Bharuch

Dr. D. Barman, Head, CSSRI RRS, Canning Town

Dr. D.S. Bundela, Head, Div. IDE, CSSRI, Karnal

Dr. Anil Kumar, Head, Div. TET, CSSRI, Karnal

Dr. S.K. Sanwal, Head, Div. CI CSSRI, Karnal

Dr. K. Lal, WTC, New Delhi

Dr. H.S. Jat, CIMMYT, India

Dr. R.K. Gautam, CCARI, Port Blair

Dr. R.L. Meena, Joint Secretary, ISSSWQ, Karnal

Dr. Rakesh Banyal, Treasurer, ISSSWQ, Karnal

Dr. R.K. Yadav, General Secretary, ISSSWQ, Karnal and Co-organizing Secretary

Dr. M.J. Kaledhonkar, PC, AICRP, Karnal and Co-organizing Secretary

ICAR-CSSRI GOLDEN JUBILEE INTERNATIONAL SALINITY CONFERENCE

Resilient Agriculture in Saline Environments under Changing Climate: Challenges & Opportunities

(RAISE-II)

7-9 February 2019 | Karnal, Haryana, India



Organised By



ICAR-Central Soil Salinity Research Institute, Karnal, India

and

Indian Society of Soil Salinity and Water Quality, Karnal, India

Collaborating Organizations

Indian Council of Agricultural Research

Ministry of Agriculture and Farmers Welfare, Govt. of India, New Delhi

Indian Society of Soil Salinity and Water Quality, Karnal, India

ICAR-Central Soil Salinity Research Institute, Karnal, India

Venue: ICAR-Central Soil Salinity Research Institute, Karnal, India



ICAR-CSSRI GOLDEN JUBILEE INTERNATIONAL SALINITY CONFERENCE
Resilient Agriculture in Saline Environments under
Changing Climate: Challenges & Opportunities

(RAISE - II)

PRELUDE

Soil salinity is a major constraint in crop production, affecting more than 100 countries, worldwide. Globally, more than 900 million hectares of land, accounting for nearly 6% of the world's total land area and approximately 20% of the total agricultural land is affected by salinity. The extent of salt affected soils is highest in Asia Pacific region countries like China, Egypt, India, Iran, Pakistan, Thailand and Australia. Other major countries outside this region are Argentina, Russia, and USA. Technological knowledge generated till date has helped in taming the problem in large tracts of land in different countries to restore their full potential. However, new challenges are set to be faced either due to changing climate or land use anomalies, leading to exponential increase in the area under salinity. Presently, the total degraded land due to salinity and sodicity is estimated to be 6.74 million hectare in India and it is likely to increase to 16.2 million ha by 2050. With new challenges cropping up, soil salinity related stresses can be more pronounced and more damaging to crop production in coming years. Identifying gaps in our knowledge, therefore, is of utmost importance to understand the threats and convert them to opportunity to enhance crop and land productivity.

ICAR-Central Soil Salinity Research Institute (CSSRI) at Karnal, Haryana, India, during its journey approaching 50 years, since its inception in 1969, has made impressive contributions in terms of development of technologies for reclamation of salt affected soils and waters. Besides U.S. Soil Salinity Laboratory, CSSRI is the only institution in the world completely dedicated to development of technologies for salty land management for crop production. It has been in the forefront, for last couple of decades, in developing technologies for holistic management of salt affected soils & waters, and extending them to millions of farmers through robust extension mechanisms. In the context of climate

change, the institute is fully geared to face new challenges of mitigation and adaptation for salt affected scenarios. With its first 'International Symposium on Salt Affected Soils', which was organized in 1980, foundation was laid for internationally collaborated efforts to mitigate soil salinity and transform lives of millions of farmers in salt affected areas worldwide. Since 2009, the institute has been organizing biennial national seminars in collaboration with Indian Society of Soil Salinity and Water Quality (ISSSWQ), and also publishes Journal of Soil Salinity and Water Quality (JSSWQ), to dissipate salinity related research findings. On its 50th anniversary year 2019, CSSRI again proposes to bring together the international scientific community devoted to salinity research through its 'Golden Jubilee International Salinity Conference on **Resilient Agriculture in Saline Environments under Changing Climate: Challenges and Opportunities (RAISE-II)**' from 7 to 9 February 2019. The conference aims to lay a strong foundation for rejuvenated research efforts and to build international collaborations to combat land and water salinization, and strengthen world food security in backdrop of climate change. We sincerely invite national and international fraternity to be part of this congregation.

MAJOR THEMES:

Resilient agriculture in saline agro-ecosystems under changing climate

Sub-Themes

- Drivers, stresses and key indicators/ parameters of soil salinity and diagnostic criteria for assessment and mapping
- Mechanisms of salinization, its impacts on soils, crops, vital ecological functions and novel strategies for upscaling the saline agro-eco systems amelioration.
- Newer approaches and breeding protocols for inducing stress tolerance in plants

- Alternate land use systems for saline agro-ecosystems
- Climate resilient approaches for higher agricultural productivity of salt affected soils and livelihood security
- Impact assessment, framing dynamic policies, addressing gender and other socio-economic issues for mitigating negative effects of salinization

CALL FOR PAPERS

Papers are invited covering recent trends in domains of the sub-themes with a focus on cost effective and innovative technologies that could be replicated in different saline agro-ecosystems, especially in the developing countries.

EXTENDED SUMMARY SUBMISSION

The authors are invited to submit extended summary of their research/ extension work, approximate 500 words, clearly stating the background and objectives of the research, brief methodology, preliminary results and highlights. The authors will be informed about the acceptance of the abstract after review by the Scientific Programme Committee.

PAPER SUBMISSION

The extended summary (approx. 500 words) can be submitted on E-mail: issswq2008@gmail.com and salinitysocietykarnal@gmail.com. The submission details and guidelines to the authors for extended summary and full paper preparation (as per guidelines of Indian Journal of Soil Salinity and Water Quality) will be available on conference website. The submitted papers will be reviewed by committee comprising of experts in the related fields. The accepted papers will be included in the conference proceedings.

PRESENTATIONS & LANGUAGE

Presentations cover plenary lectures, invited papers, contributory oral papers and poster presentations. English will be the official language of the conference.

IMPORTANT DATES

Summary Submission	31 Dec. 2018
Summary acceptance	15 Jan. 2019
Early Bird Registration	30 Nov. 2018
Conference registration	25 Jan. 2019
Conference Dates	7-9 Feb. 2019
Post Conference tour	10 Feb. 2019

REGISTRATION FEE

1. Indian Delegates

Scientists: INR (₹) 7500/-
 (After due date: ₹ 8500/-)
 Industry and private institutes:
 ₹ 10,000/-
 Students: ₹ 4000/-
 (After due date: ₹ 4500/-)
 Accompanying person: ₹ 4500/-
 (After due date: ₹ 5000/-)

2. Foreign Delegates

Scientists (except SAARC Nations):
 USD (\$) 350 (After due date: \$ 400)
 Students (except SAARC Nations):
 \$ 200 (After due date: \$ 225)
 Scientists (from SAARC Nations):
 \$ 150 (After due date: \$ 200)
 Students (SAARC Nations):
 \$ 100 (After due date: \$ 125)
 Industry and Private Organizations:
 \$ 650 (After due date: \$ 700)
 Accompanying person: \$ 250

VISA INFORMATION

All foreign nationals visiting India are required to possess a valid international travel document in the form of a national passport with a valid visa obtained from an Indian Mission or Post abroad. All Individual visa seekers are advised to apply for the Indian Visa, through online application link, in order to make an application for getting the Indian visa. For details please visit <https://indianvisaonline.gov.in/>

ACCOMODATION AND TRAVEL

Registration fee does not include accommodation charges. Accommodation will be arranged in guest houses and hotels as per the choice of the participants on request. Tariff will be intimated in our website. Please visit our site www.cssri.org

POST CONFERENCE TOUR

The post conference tour will be arranged to the historical places Delhi-Agra; Amritsar, Wagha Border as per requirement on payment basis.

POST CONFERENCE TECHNICAL TOURS & CULTURAL PROGRAM



Brhma Sarovar Kurukshetra



Taj Mahal Agra



Golden Temple Amritsar



Wagha Border Punjab



Red Fort New Delhi



Hawa Mahal Jaipur

VENUE: ICAR-Central Soil Salinity Research Institute, Karnal

The Karnal, a pre-historical epic city in state of Haryana, is located 132 km north of Delhi on National Highway No. 1 (i.e. Grant Trunk Road). It is well connected by road and rail. The city is believed to have been founded by King Karna "the all-time great donator" and a key figure of the Mahabharata epic fame, who died at the hands of his brother and arch rival, Arjuna "the greatest archer". Also, it is the birthplace of the first Indo-American woman astronaut Kalpana Chawla who went to space twice; first on the Space Shuttle Columbia in 1997 as a mission specialist and primary robotic arm operator and second time as one of the seven crew members that died in the Space Shuttle Columbia disaster in 2003. More recently, Karnal city was selected as one of the hundred Indian cities to be developed as smart city under PM Narendra Modi's flagship Smart Cities Mission.

Karnal is center of numerous agriculture research and educational institutes. These include ICAR-CSSRI, IIW&BR, NDRI, NBAGR, Maharana Pratap Horticulture University and research centres of IARI, SBI, CSHAU and LUVAS. The region is also home for many related associations and

companies thus having leads and fruitful connections. ICAR-CSSRI has demonstrated many successful technological interventions in the field of reclamation and sustainable management of saline agro-ecosystems with regional and global importance. This conference is step forward to present and explore work especially in sustainable management of saline agro-ecosystems globally to serve farming community in a better way.

WEATHER

Karnal is situated at 29° 41' N latitude and 76° 59' E longitude and 252 meters above mean sea level with tropical climate. During February, the maximum day temperature ranges between 20-22°C while nights are cool with minimum temperature range of 08-15°C. Days are sunny and cotton clothing is suitable. However, occasionally warm clothing may be required during night as well as in case of drop in temperature due to snowfall in Shiwalik hills.

HOST ORGANIZATION

ICAR-Central Soil Salinity Research Institute, Karnal – 132 001, India and Indian Society of Soil Salinity and Water Quality, Karnal – 132 001, India