



## 1<sup>st</sup> Indian Rice Congress - 2020

Rice Research and Development for Achieving  
Sustainable Development Goals

December 8-9, 2020  
Cuttack 753006, Odisha, India

# Programme

Organizer:



Association of Rice Research Workers  
Cuttack, Odisha, India

In Collaboration with

Indian Council of Agricultural Research, New Delhi  
ICAR-National Rice Research Institute, Cuttack  
ICAR-Indian Institute of Rice Research, Hyderabad  
ICAR-Indian Agricultural Research Institute, New Delhi  
Odisha University of Agriculture & Technology, Bhubaneswar  
Society for Advancement of Rice Research, Hyderabad  
IRRI South Asia Regional Centre, Varanasi



IRRI



Date : 8-9 December 2020  
 Venue : Virtual mode, ICAR-NRRI, Cuttack

Day 1: December 8, 2020 (Tuesday)

Time 9.30-13.50 hrs

<b>Meeting ID</b>	920 1530 5435
<b>Password</b>	707672
<b>Zoom link</b>	<a href="https://zoom.us/j/92015305435?pwd=N2NSREtPQnhOMXI1S0o0V1g4MklpZz09">https://zoom.us/j/92015305435?pwd=N2NSREtPQnhOMXI1S0o0V1g4MklpZz09</a>
<b>Youtube link</b>	<a href="https://www.youtube.com/watch?v=AGozhulcpgo&amp;feature=youtu.be">https://www.youtube.com/watch?v=AGozhulcpgo&amp;feature=youtu.be</a>

### INAUGURATION

**Chief Guest:** Dr. T Mohapatra, Secretary, DARE & Director General, ICAR, New Delhi  
**Guest of Honour:** Dr. Mathew Morell, Director General, IRRI, Philippines

9.30-11.00	:	ICAR song
	:	Welcome Address <b>Dr. D Maiti</b> , Director, ICAR-NRRI
	:	Introduction of the Congress <b>Dr. H Pathak</b> , President, ARRW
	:	Remarks <b>Dr. Mathew Morell</b> , Guest of Honour
	:	Release of Publications <b>Dr. T Mohapatra</b> , Chief Guest
	:	Inaugural Address <b>Dr. T Mohapatra</b> , Chief Guest
	:	Vote of Thanks <b>Dr. MJ Baig</b> , Organizing Secretary

### PLENARY LECTURE

11.00-11.40	:	Speaker	<b>Dr. Ramesh Chand</b> , Member, NITI Aayog
	:	Convener	<b>Dr. TR Sharma</b> , DDG (CS), ICAR, New Delhi

### 11.40-11.50 : TEA BREAK

### PANEL DISCUSSION

11.50-13.50	:	<b>Reinventing rice production system to achieve the SDGs</b>	
<b>Chairman:</b> Dr. Mathew Morell, Director General, IRRI, Philippines		<b>Panellists:</b>	
<b>Convener:</b> Dr. H Pathak, President, ARRW Dr. D Maiti, Director, ICAR-NRRI		1. <b>Dr. TR Sharma</b> , DDG (CS), ICAR	
<b>Rapporteurs:</b>		2. <b>Dr. AK Singh</b> , Director, IARI	
1. Dr. RM Sundaram, Vice-President, ARRW		3. <b>Dr. PK Agarwal</b> , VC, OUAT	
2. Dr. Biswajit Mondal, Principal Scientist, ICAR-NRRI, Cuttack		4. <b>Dr. Arvind Kumar</b> , Director, IRRI-SARC	
		5. <b>Dr. Ch. Srinivasa Rao</b> , Director, ICAR-NAARM	
		6. <b>Dr. PK Joshi</b> , Director, IFPRI-South Asia	
		7. <b>Dr. SR Voleti</b> , Director, ICAR-IIRR	
		8. <b>Dr. P Soman</b> , Sr. Vice-President & Chief Scientist, Jain Irrigation System Ltd.	
		9. <b>Dr. Aruna Rachakonda</b> , Business Director, South Asia. Corteva Agriscience	

13.50-14.30: LUNCH BREAK

CONCURRENT SESSIONS			
Scientific themes			
14.30-16.30	:	<b>Session I (a)</b> <b>Enhancing rice productivity and quality</b>	<b>Session II (a)</b> <b>Biotic-stress management in rice</b>
Meeting ID	:	920 1530 5435	966 2854 9163
Password	:	707672	829126
Zoom link	:	<a href="https://zoom.us/j/92015305435?pwd=N2NSREtPQnhOMXI1S0o0V1g4MklpZz09">https://zoom.us/j/92015305435?pwd=N2NSREtPQnhOMXI1S0o0V1g4MklpZz09</a>	<a href="https://zoom.us/j/96628549163?pwd=Q2J0OVd3Y21Fd24wWnNVYUdLc3JDZz09">https://zoom.us/j/96628549163?pwd=Q2J0OVd3Y21Fd24wWnNVYUdLc3JDZz09</a>
Youtube	:	<a href="https://www.youtube.com/watch?v=AGozhu1cpgo&amp;feature=youtu.be">https://www.youtube.com/watch?v=AGozhu1cpgo&amp;feature=youtu.be</a>	<a href="https://www.youtube.com/watch?v=3SeqChZgiAQ&amp;feature=youtu.be">https://www.youtube.com/watch?v=3SeqChZgiAQ&amp;feature=youtu.be</a>
		<p><b>Co-Chair:</b> Dr. TR Sharma, DDG (CS), ICAR</p> <p><b>Co-Chair:</b> Dr. PK Agarwal, VC, OUAT</p> <p><b>Convener:</b> Dr SK Pradhan, PS, ICAR-NRRI, Cuttack &amp; Dr. LV Subba Rao, Principal Scientist, ICAR-IIRR, Hyderabad</p> <p><b>Rapporteurs:</b> Dr Kutubuddin Molla, Scientist, ICAR-NRRI, Cuttack and Dr Sutapa Sarkar, Scientist, ICAR-NRRI, Cuttack</p>	<p><b>Co-Chair:</b> Dr. CD Mayee, President, SABC</p> <p><b>Co-Chair:</b> Dr. C Chattopadhyay, VC, UBKV, WB</p> <p><b>Convener:</b> Dr. PC Rath, Head, CPT, ICAR-NRRI &amp; Dr. KK Mondal, Principal Scientist, ICAR-IARI, New Delhi</p> <p><b>Rapporteurs:</b> Dr. Basana Gowda G, Scientist, ICAR-NRRI, Cuttack and Dr. K Basavaraj, Scientist, ICAR-IIRR, Hyderabad</p>
14.35-15.05	:	<b>Keynote Speaker:</b> Dr AK Singh, Director, IARI "Future of rice breeding in India"	<b>Keynote Speaker:</b> Dr. Finbarr G Horgan, Environment and Sustainable Resource Management, University College, Belfield, Dublin, Ireland "Rice ecology <i>vis a vis</i> pest management"
15.10-15.30	:	<b>Lead Lecture I:</b> Dr. KK Jena, Professor Emeritus, KIIT, BBSR "Recent development in biotechnology approaches for enhancing yield potential and genetic gain in rice"	<b>Lead Lecture I:</b> Dr. S Mohankumar, Director, Centre for Plant Molecular Biology and Biotechnology, TNAU "A grain saved a grain produced: novel technologies in post-harvest pest management"
15.35-15.55	:	<b>Lead Lecture II:</b> Dr. MK Reddy, ICGEB, New Delhi "Rice improvement through transgenesis and genome editing"	<b>Lead Lecture II:</b> Dr. Gopaljee Jha, Scientist V, NIPGR, New Delhi "Dissecting plant microbes interaction for holistic management of rice diseases"
16.00-16.20	:	<b>Lead Lecture III:</b> Dr. V Chinnusamy, Head, Plant Physiology, IARI, New Delhi "Phenomics for genetic improvement of water and nitrogen use efficiency of rice"	<b>Lead Lecture III:</b> Dr. JS Bentur, Professor (Plant Biotechnology), Agri Biotech Foundation, Hyderabad "Hostplant resistance against insect pests: Progress and prospects"

16.20-16.30	:	<b>Tea Break</b>	
16.30-17.30	:	<b>Session I (Oral Presentation)</b> <b>Enhancing rice productivity and quality</b>	<b>Session II (Oral Presentation)</b> <b>Biotic-stress management in rice</b>
Meeting ID	:	920 9515 4207	977 2889 8874
Password	:	613500	101940
Zoom link	:	<a href="https://zoom.us/j/92095154207?pwd=REtQb1NTaHhxSzhwWXRSY0sxcEs4UT09">https://zoom.us/j/92095154207?pwd=REtQb1NTaHhxSzhwWXRSY0sxcEs4UT09</a>	<a href="https://zoom.us/j/97728898874?pwd=OXNJTWZFLy9qQjZCY1NTVHBNMkNrUT09">https://zoom.us/j/97728898874?pwd=OXNJTWZFLy9qQjZCY1NTVHBNMkNrUT09</a>
		<p><b>Co-Chair: Dr. Padmini Swain,</b> Head, CPB, ICAR-NRRI, Cuttack</p> <p><b>Co-Chair: Dr. RM Sundaram,</b> Principal Scientist, ICAR-IIRR, Hyderabad</p> <p><b>Convener: Dr. SK Pradhan,</b> PS, ICAR-NRRI, Cuttack &amp; <b>Dr. LV Subba Rao,</b> Principal Scientist, ICAR-IIRR, Hyderabad</p> <p><b>Rapporteurs:</b> Dr. Kutubuddin Ali Molla, Scientist, ICAR-NRRI, Cuttack and Dr. Sutapa Sarkar, Scientist, ICAR-NRRI, Cuttack</p>	<p><b>Co-Chair: Dr. Mayabini Jena,</b> Former Head, CPT, ICAR-NRRI, Cuttack</p> <p><b>Co-Chair: Dr. D Krishnaveni,</b> Principal Scientist, ICAR-IIRR, Hyderabad</p> <p><b>Convener: Dr. PC Rath,</b> Head, CPT, ICAR-NRRI &amp; <b>Dr. KK Mondal,</b> Principal Scientist, ICAR-IARI, New Delhi</p> <p><b>Rapporteurs:</b> Dr. Basana Gowda G, Scientist, ICAR-NRRI, Cuttack and Dr. K Basavaraj, Scientist, ICAR-IIRR, Hyderabad</p>
16.30-16.38	:	<p><b>Dr. P K Mohapatra,</b> Sambalpur University, Sambalpur</p> <p>“Ethylene could be the retrograde signal for the trade-off between spikelet number and grain filling”</p>	<p><b>Dr. Mayabini Jena,</b> ICAR-NRRI, Cuttack</p> <p>“Host plant resistance in rice against brown plant hopper and yellow stem borer”</p>
16.40-16.48	:	<p><b>Dr. Nitika Sandhu,</b> PAU, Ludhiana</p> <p>“Advances in developing multi-gene abiotic and biotic-stresses tolerant rice varieties”</p>	<p><b>Dr. M. Srinivasarao,</b> BCKV, WB</p> <p>“Effect of organic plant protection management on major pest in rice”</p>
16.50-16.58	:	<p><b>Mr. Nguyen Trung Duc,</b> ICAR-IARI, New Delhi</p> <p>“Combining high-throughput phenotyping and genome-wide association studies for genetic dissection of nitrogen use efficiency in rice”</p>	<p><b>Dr. Manas Kumar Bag,</b> ICAR-NRRI, Cuttack</p> <p>“Analysis of genetic diversity and population structure of <i>Ustilaginoideavirens</i> in India as revealed by microsatellite markers”</p>
17.00-17.08	:	<p><b>Dr. RM Sundaram,</b> ICAR-IIRR, Hyderabad</p> <p>“Molecular mapping of novel low soil phosphorus tolerance loci and marker-assisted introgression of <i>pup1</i> into elite rice varieties”</p>	<p><b>Dr. D Ladhalakshmi,</b> ICAR-IIRR, Hyderabad</p> <p>“Refined method for mass multiplication of <i>Ustilaginoidea virens</i> conidia for effective screening of rice genotypes”</p>
17.10-17.18	:	<p><b>Ms. Shibani Mohapatra,</b> ICAR-NRRI, Cuttack</p> <p>“Gene stacking for submergence tolerance, bacterial blight resistance and yield potential in rice variety swarna through classical and molecular breeding approach”</p>	<p><b>Dr. V. Sunil,</b> ICAR-IIRR, Hyderabad</p> <p>“Effect of elevated CO<sub>2</sub> and temperature on the feeding behaviour of rice brown planthopper, <i>Nilaparvata lugens</i> (Stål) populations”</p>
17.20-17.28	:	<p><b>Mr. Soumya Mohanty,</b> ICAR-NRRI, Cuttack</p> <p>Identification of QTLs associated with grain yield and related traits</p>	<p><b>Dr. BC Das,</b> AAU, Jorhat, Assam</p> <p>“Organic Management of Sheath Rot, an emerging disease of Rice in Assam”</p>

under low light in rice (*Oryza sativa* L.)

### SPECIAL SESSIONS

14.30-16.30	:	<b>Session III</b> Building Climate Resilience of Indian Smallholders through Sustainable Intensification and Agroecological Farming Systems to Strengthen Food and Nutrition Security (RESILIENCE)	<b>Session VI</b> Public-Private partnership for rice research and development
<b>Meeting ID</b>	:	995 6294 8801	939 3428 7761
<b>Password</b>	:	251842	arrw
<b>Zoom link</b>	:	<a href="https://zoom.us/j/99562948801?pwd=MnFVdTl2aU42YXUwKOpGbWVXVWQ2Zz09">https://zoom.us/j/99562948801?pwd=MnFVdTl2aU42YXUwKOpGbWVXVWQ2Zz09</a>	<a href="https://zoom.us/j/93934287761?pwd=bStJSWtPY1dYSTdoc0JweXFOcDRHZz09">https://zoom.us/j/93934287761?pwd=bStJSWtPY1dYSTdoc0JweXFOcDRHZz09</a>
<b>Co-Chair: Dr. H Pathak</b> , Director, ICAR-NIASM, Maharashtra		<b>Chairman: Dr D Maiti</b> , Director, ICAR-NRRI, Cuttack	
<b>Co-Chair: Dr. Udaya Sekhar Nagothu</b> , Director, International Cooperation, NIBIO, Norway		<b>Convener: Dr. BC Patra</b> , Head, CID, ICAR-NRRI, Cuttack	
<b>Convener: Dr. AK Nayak</b> , Head, CPD, ICAR-NRRI, Cuttack		<b>Rapporteurs:</b> Dr. Asit Kumar Pradhan, Scientist, ICAR-NRRI, Cuttack and Dr. NN Jambhulkar, Scientist, ICAR-NRRI, Cuttack	
<b>Rapporteurs:</b> Dr Rahul Tripathi, SS, ICAR-NRRI and Dr. Md Shahid, SS, ICAR-NRRI, Cuttack			
14.30-14.50	:	<b>Lecture I: Dr. Rahul Tripathi</b> , SS, CPD, ICAR-NRRI “riceNxpert: a digital solution for real time N recommendation for enhancing nitrogen use efficiency and yield of rice”	<b>Lecture I: Dr. GAK Kumar</b> , Head, SSD, ICAR-NRRI “Commercialable Technologies developed by ICAR-NRRI to strengthen rice production system”
14.50-15.10	:	<b>Lecture II: Ms Pompei Dutta</b> , Research Scholar, Assam Agricultural University, Assam “Role of climate smart rice varieties in building resilience of small farmers in the climate change scenario of Assam: An impact study”	<b>Lecture II: Dr. Sunil Kumar</b> , Principal Biologist, South Asia (Herbicides), Corteva Agri science “Weed Management strategies for sustainable rice cultivation under dry seeding environment”
15.10-15.30	:	<b>Lecture III: Dr. Sanjay Kumar Chetia</b> , Principal Scientist (PBG), Regional Agricultural Research Station, Assam Agricultural University “Impact of the smart seed production system of rice in augmentation of climate smart agriculture”	<b>Lecture III: Dr. P Soman</b> , Vice President and Chief Scientist, Jain Irrigation Systems Ltd. “Enhancing the yield of Rice with reduced water application”
15.30-15.50	:	<b>Lecture IV: Dr. Archisman Mitra</b> , Researcher-Water Resources Economics, IWMI-Delhi “Effect of adaptation strategies on household vulnerability in rice based farming system of Eastern	<b>Lecture IV: Dr. Yog Raj</b> , APAC Rice Commercial Breeding Lead, Bayer BioScience Pvt. Ltd. "Rice hybrids: road travelled and road ahead"

	India”	
15.50-16.10	<p><b>Lecture V: Dr. R Rajkumar</b>, Senior Scientist in Village Resource Centre, Pudukkottai, MSSRF, Chennai</p> <p>“ICT mediated agriculture extension services in improving the Resilience capacity of small holders: Empirical study from the Rice production systems in Assam and Odisha”</p>	<p><b>Lecture V: Dr. Sampad Ranjan Patra</b>, Director of Agriculture &amp; Ex-Officio Secretary, Government of West Bengal</p> <p>"Future perspective of Boro rice in India”.</p>
16.10-16.30	<p><b>Lecture VI: Dr. R Rengalakshmi</b>, Director &amp; Principal Scientist, Ecotechnology, MSSRF, Chennai</p> <p>“Exploring Barriers and Enablers for strengthening small farmers’ participation in paddy value chain”</p>	

14.30-17.30	<b>POSTER SESSIONS</b>	
	<p><b>Theme 2</b> Sustainable rice farming</p>	<p><b>Theme 4</b> Rice for livelihood security, equity and profitability</p>
Meeting ID	984 6214 5994	971 0533 2824
Password	928032	arrw
Zoom link	<a href="https://zoom.us/j/98462145994?pwd=Q01GMk4vd3pXYjd0ditzV05VNkNDUT09">https://zoom.us/j/98462145994?pwd=Q01GMk4vd3pXYjd0ditzV05VNkNDUT09</a>	<a href="https://zoom.us/j/97105332824?pwd=T0FVRXhqSmI0K3ljM2RpbU9tdnVqUT09">https://zoom.us/j/97105332824?pwd=T0FVRXhqSmI0K3ljM2RpbU9tdnVqUT09</a>
16.30-17.30 (Evaluation Committee)	<p><b>Co-Chair: Dr. LM Garnayak</b>, Director of Extension Education, OUAT, Bhubaneswar</p> <p><b>Co-Chair: Dr. AK Nayak</b>, Head, CPD, ICAR-NRRI, Cuttack</p> <p><b>Convener: Dr. BB Panda</b>, PS, ICAR-NRRI, Cuttack</p> <p><b>Rapporteurs:</b> Dr. Sushmita Munda, Scientist, ICAR-NRRI and Dr. Mangal Deep Tutti, Scientist, ICAR-IIRR</p>	<p><b>Co-Chair: Dr. GAK Kumar</b>, Head, SSD, ICAR-NRRI, Cuttack</p> <p><b>Co-Chair: Dr. Sheikh Meera</b>, PS, ICAR-IIRR, Hyderabad</p> <p><b>Convener: Dr. Biswajit Mondal</b>, PS, ICAR-NRRI, Cuttack</p> <p><b>Rapporteurs:</b> Dr. Asit Pradhan, Scientist, ICAR-NRRI and Dr. Arunkumar, Scientist, ICAR-IIRR, Hyderabad</p>

### DISTINGUISHED EVENING LECTURES

**Meeting ID:** 985 4560 5226

**Password:** 063576

**Zoom link:** <https://zoom.us/j/98545605226?pwd=UFR3M2t5L1Y3SkQ4S1BLSzFSWTY4QT09>

**Youtube:** <https://www.youtube.com/watch?v=VBSoflvePbM&feature=youtu.be>

19.00-21.00	<p><b>Co-Chair: Dr. H Pathak</b>, Director, ICAR-NIASM, Pune</p> <p><b>Co-Chair: Dr. D Maiti</b>, Director, ICAR-NRRI, Cuttack</p> <p><b>Moderator: Dr. Kutubuddin Molla</b>, Scientist, ICAR-NRRI</p>
19.00-20.00	<p><b>Prof. Swapan K Datta</b>, Distinguished Biotech. Res. Professor, Univ. of Calcutta and Former DDG (Crop Science), ICAR</p> <p>“Bioengineered Nutrition Rich Rice for All”</p>
20.00-21.00	<p><b>Prof. Pamela Ronald</b>, Distinguished Professor, Univ. of California, Davis, USA</p> <p>“Engineering Rice for World Food Security”</p>

## Day 2: December 9, 2020 (Wednesday)

### CONCURRENT SESSIONS

10.00-13.00	:	<b>Session IV (a)</b> <b>Sustainable rice farming</b>	10.00-13.00	:	<b>Session V (a)</b> <b>Rice for livelihood security, equity and profitability</b>
<b>Meeting ID</b>	:	966 1160 1586			970 1884 7238
<b>Pass word</b>	:	788849			964749
<b>Zoom link</b>	:	<a href="https://zoom.us/j/96611601586?pwd=Y1RXtmxJTFpwODVzY2xtYjgzcitDZz09">https://zoom.us/j/96611601586?pwd=Y1RXtmxJTFpwODVzY2xtYjgzcitDZz09</a>			<a href="https://zoom.us/j/97018847238?pwd=cHg5TEEybk1YNkdqYW9havs2Nndtdz09">https://zoom.us/j/97018847238?pwd=cHg5TEEybk1YNkdqYW9havs2Nndtdz09</a>
<b>Youtube</b>	:	<a href="https://www.youtube.com/watch?v=Se9AHhrSKiw&amp;feature=youtu.be">https://www.youtube.com/watch?v=Se9AHhrSKiw&amp;feature=youtu.be</a>			<a href="https://www.youtube.com/watch?v=IIW5Y319r2I&amp;feature=youtu.be">https://www.youtube.com/watch?v=IIW5Y319r2I&amp;feature=youtu.be</a>
		<p><b>Co-Chair: Dr. SK Chaudhari</b>, DDG (NRM), ICAR, New Delhi</p> <p><b>Co-Chair: Dr. AR Sharma</b>, Director Research, Rani Lakshmi Bai Central Agricultural University, Jhansi</p> <p><b>Conveners: Dr. LM Garnayak</b>, Director of Extension Education, OUAT, Bhubaneswar &amp; <b>Dr. AK Nayak</b>, Head, CPD, ICAR-NRRI, Cuttack</p> <p><b>Rapporteurs: Dr Teekam Singh</b>, SS, ICAR-IARI, New Delhi and <b>Dr. Rahul Tripathi</b>, SS, ICAR-NRRI, Cuttack</p>			<p><b>Co-Chair: Dr. AK Singh</b>, DDG (Extension), ICAR, New Delhi</p> <p><b>Co-Chair: Dr Sreenath Dixit</b>, Principal Scientist &amp; Head ICRISAT Development Centre (IDC) Asia Program</p> <p><b>Convener: Dr. Rabindra Nath Padaria</b> Professor, Principal Scientist, ICAR-IARI, New Delhi &amp; <b>Dr. GAK Kumar</b>, Head, SSD, ICAR-NRRI, Cuttack, Odisha</p> <p><b>Rapporteurs: Dr. Biswajit Mondal</b>, PS, ICAR-NRRI and <b>Dr. Santosha Rathod</b>, Scientist, ICAR-IIRR</p>
10.05-10.25	:	<b>Lead Lecture I: Dr. H Pathak</b> , Director, ICAR-NIASM, Baramati “Abiotic stress management for sustainable rice farming”	10.05-10.35	:	<b>Keynote speaker: Dr. Suresh Pal</b> Director, ICAR-National Institute of Agricultural Economics and Policy Research “Agricultural Research & Development Policy: Reforms & Policy Options”
10.30-10.50	:	<b>Lead Lecture II: Dr. Ch Srinivasa Rao</b> , Director, ICAR-National Academy of Agricultural Research Management “Conservation agriculture in Rice: Challenges and Opportunities”.	10.40-11.00	:	<b>Lead Lecture I: Dr. P Chandra Sekhara</b> , Director (Extension), MANAGE, Hyderabad “Policy Reforms towards Market-led Extension of Rice Technologies”
10.55-11.15	:	<b>Lead Lecture III: Professor Biswapati Mandal</b> , Bidhan Chandra Krishi Viswavidyalaya, Mohanpur “Upkeeping health of intensively cultivated rice soils of India”	11.05-11.25	:	<b>Lead Lecture II: Dr Jiju Alex</b> , Director Extension, KAU, Thrissur, Kerala “Reviving Rice Production Systems: Institutional Changes and Policy Recommendations”
11.20-11.50	:	<b>Keynote speaker: Dr Pete Smith</b> , Chair in Plant & Soil Science, Institute of Biological and Environmental Sciences,	11.30-11.50	:	<b>Lead Lecture III: Dr. Anjani Kumar</b> , Research Fellow, IFPRI, South Asia Office, New Delhi “Rice Value Chain and Economic

	University of Aberdeen, UK “Rice for food, nutritional and environmental security”	Well Being in India”
<b>11.50-12.00: TEA BREAK</b>		
12.00-13.00	<b>Session IV (Oral presentation)</b> <b>Sustainable rice farming</b>	<b>Session V (Oral presentation)</b> <b>Rice for livelihood security, equity and profitability</b>
<b>Meeting ID</b>	985 1319 7129	952 4752 6649
<b>Password</b>	610537	arrw
<b>Zoom link</b>	<a href="https://zoom.us/j/98513197129?pwd=OUVrendOWjN0Zi9DNjc3elUyNTRxQT09">https://zoom.us/j/98513197129?pwd=OUVrendOWjN0Zi9DNjc3elUyNTRxQT09</a>	<a href="https://zoom.us/j/95247526649?pwd=aXI3Y2RpbFFSU3A4YkViNThTdDJEz09">https://zoom.us/j/95247526649?pwd=aXI3Y2RpbFFSU3A4YkViNThTdDJEz09</a>
	<p><b>Co-Chair: Dr. VK Singh</b>, Head, ICAR-IARI, New Delhi</p> <p><b>Co-Chair: Dr. AK Shukla</b>, Principal Scientist &amp; Project Coordinator (AICRP-MSPE), Bhopal</p> <p><b>Conveners: Dr. LM Garnayak</b>, Director of Extension Education, OUAT, Bhubaneswar &amp; <b>Dr. A K Nayak</b>, Head, CPD, ICAR-NRRI, Cuttack</p> <p><b>Rapporteurs: Dr. Teekam Singh</b>, SS, ICAR-IARI, New Delhi and <b>Dr. Rahul Tripathi</b>, SS, ICAR-NRRI, Cuttack</p>	<p><b>Co-Chair: Dr. SK Srivastava</b>, Director, CIWA</p> <p><b>Co-Chair: DR. BN Sarangi</b>, Former Head, ICAR-NRRI, Cuttack</p> <p><b>Convener: Dr. Rabindra Nath Padaria</b> Professor, Principal Scientist, ICAR-IARI, New Delhi &amp; <b>Dr. GAK Kumar</b>, Head, SSD, ICAR-NRRI, Cuttack</p> <p><b>Rapporteurs: Dr. B Mondal</b>, PS, ICAR-NRRI, Cuttack and <b>Dr. Santosha Rathod</b>, Scientist, ICAR-IIRR, Hyderabad</p>
12.00 - 12.08	<p><b>Dr. Anjani Kumar</b>, ICAR-NRRI, Cuttack</p> <p>“Path modelling approach for elucidating relationship between nitrous oxide emission and functional soil microbes from rice soil exposed to elevated carbon dioxide”</p>	<p><b>Dr. Sk Mosharaf Hossain</b>, IRRI-India, Bhubaneswar</p> <p>“Boon of bina dhan 11 for yield augmentation in flood prone rice ecology of Odisha”</p>
12.10-12.18	<p><b>Dr. Thulasi V</b>, RARS Pattambi (KAU)</p> <p>“Integrated nutrient management for sustainable rice production in the climate change scenario- lessons from long term fertilizer experiments”</p>	<p><b>Dr. Minakshi Chakraborty</b>, Mahindra &amp; Mahindra, Mumbai</p> <p>“Sustainability of Rice Cultivation in India”</p>
12.20-12.28	<p><b>Dr. R. Mahender Kumar</b>, ICAR-IIRR, Hyderabad</p> <p>“SRI (System of Rice Intensification) and its modifications on water input saving for sustainable productivity”</p>	<p><b>Dr. Parshuram Samal</b>, ICAR-NRRI, Cuttack</p> <p>“Impact of rice varietal improvement research in different states of India”</p>
12.30-12.38	<p><b>Dr. Upendra Kumar</b>, ICAR-NRRI, Cuttack</p> <p>“An unfolding success story of endophytic diazotroph <i>Azotobacter chroococcum</i> Avi2: a substantial substitute of n-fertilizer in rice”</p>	<p><b>Dr. Gracy Mathew</b>, RARS Pattambi (KAU)</p> <p>“Evaluation of scientific production package vs. farmers’ practices in rice farming”</p>
12.40-12.48	<p><b>Dr. Mangal Deep Tuti</b>, ICAR-IIRR, Hyderabad</p> <p>“Enhancing productivity and resource</p>	<p><b>Dr. Mrityunjay Ghosh</b>, BCKV, Nadia</p> <p>“Aromatic rice of West Bengal: Variety registration, value-chain, geographical</p>

	use efficiency of rice-maize system through conservation agriculture”	indication and export issues”
12.50-12.58	<b>Dr. Sudhanshu Singh</b> , ISARC, Varanasi “Improving resilience and productivity of rice-based systems in drought-prone rainfed environment”	<b>Dr. Biswajit Mondal</b> , ICAR-NRRI, Cuttack “Is rice farming profitable? A farm-level appraisal from eastern Indian states”
<b>SPECIAL SESSION</b>		
10.00-12.00	: <b>Session VII</b> <b>Collaborating rice research and development between ICAR and IRRI</b>	
Meeting ID	: 963 5823 1715	
Password	: 674013	
Zoom link	: <a href="https://zoom.us/j/96358231715?pwd=QWpDL2w1OHB0bTJQTjk2OCtMTmtLUT09">https://zoom.us/j/96358231715?pwd=QWpDL2w1OHB0bTJQTjk2OCtMTmtLUT09</a>	
<p><b>Co-Chair: Dr. Arvind Kumar</b>, Director, IRRI-SARC, Varanasi  <b>Co-Chair: Dr. D Maiti</b>, Director, ICAR-NRRI, Cuttack  <b>Convener: Dr A K Nayak</b>, Head, CPD, ICAR-NRRI, Cuttack  <b>Rapporteur: Dr. C Parameswaran</b>, Scientist, ICAR-NRRI, Cuttack</p>		
10.00-10.20	: <b>Dr SK Pradhan</b> , PS, ICAR-NRRI “Future requirements of rice improvement in India for rainfed ecology”	
10.20-10.40	: <b>Dr LV Subbarao</b> , PS, ICAR-IIRR “Future requirements of rice improvement in India for irrigated ecology”	
10.40-11.00	: <b>Dr. Vikas Kumar Singh (IRRI)</b> “Breeding strategy under rainfed and irrigated ecologies and products available with IRRI for India”	
11.00-11.20	: <b>Dr. Nese Sreenivasulu (IRRI)</b> “Grain quality and nutrition; future projections for ICAR-IRRI collaborations”	
11.20-11.40	: <b>Dr Anjani Kumar</b> , Scientist., ICAR-NRRI “Climate resilient rice production technology and improving farmers’ income in India”	
11.40-12.00	: <b>Dr. Sheetal Sharma (IRRI)</b> “Agronomy and crop-nutrient management of rice: ICAR-IRRI collaboration perspectives”	
<b>POSTER SESSIONS</b>		
10.00-13.00	: <b>Theme 1</b> <b>Enhancing rice productivity and quality</b>	<b>Theme 3</b> <b>Biotic-stress management in rice</b>
Meeting ID	: 919 7485 9429	993 2531 2922
Password	: 950772	arrw
Zoom link	: <a href="https://zoom.us/j/91974859429?pwd=Tjg5Z2tSbG91dlhUYVBLeWZkZWFlQ09">https://zoom.us/j/91974859429?pwd=Tjg5Z2tSbG91dlhUYVBLeWZkZWFlQ09</a>	<a href="https://zoom.us/j/99325312922?pwd=eitDUDJiMnZUOHZld2JXVTBPNWFwQT09">https://zoom.us/j/99325312922?pwd=eitDUDJiMnZUOHZld2JXVTBPNWFwQT09</a>
12.00-13.00 (Evalu	: <b>Co-Chair: Dr GR Rout</b> , Professor & Head, Dept. of Agricultural Biotechnology, College of Agriculture,	<b>Co-Chair: Dr. Pankaj Kaushal</b> , Joint Director, ICAR-NIBSM, Raipur <b>Co-Chair: Dr. LK Rath</b> , Professor &

<b>ation commi ttee)</b>	OUAT, Bhubaneswar <b>Co-Chair: Dr. Padmini Swain, Head,</b> CPB, ICAR-NRRI, Cuttack <b>Convener: Dr. Sanghamitra Samantaray,</b> PS, ICAR-NRRI, Cuttack <b>Rapporteurs:</b> Dr. Mridul Chakraborti, SS, ICAR-NRRI, Cuttack and Dr. R. Abdul Fiyaz, Scientist, ICAR-IIRR, Hyderabad	Head, Dept. of Entomology, College of Agriculture, OUAT, Bhubaneswar <b>Convener: Dr. SD Mohapatra,</b> PS, ICAR-NRRI, Cuttack <b>Rapporteurs:</b> Dr. Guru P Pandi, Scientist, ICAR-NRRI, Cuttack and Dr. Satish N Chavan, Scientist, ICAR-IIRR, Hyderabad
<b>13.00-14.00 : LUNCH BREAK</b>		
<b>14.00-15.30</b>	<b>: ARRW Annual General Body Meeting and Fellowship &amp; Award Giving Ceremony</b>	
	<b>President:</b> Dr. H Pathak <b>Secretary:</b> Dr. MJ Baig	
<b>Meeti ng ID</b>	:	952 2036 1009
<b>Passw ord</b>	:	122915
<b>Zoom link</b>	:	<a href="https://zoom.us/j/95220361009?pwd=OVprbzBmQnpvNmFycnhKbVIYOVDdz09">https://zoom.us/j/95220361009?pwd=OVprbzBmQnpvNmFycnhKbVIYOVDdz09</a>
<b>15.30-17.00</b>	<b>VALEDICTORY SESSION</b>	
<b>Meetin g ID</b>	:	948 8217 7621
<b>Passwo rd</b>	:	814012
<b>Zoom link</b>	:	<a href="https://zoom.us/j/94882177621?pwd=ODlBeTh4SzR6Nzd4RjlvZ0F5dkZ6QT09">https://zoom.us/j/94882177621?pwd=ODlBeTh4SzR6Nzd4RjlvZ0F5dkZ6QT09</a>
<b>Youtub e</b>	:	<a href="https://www.youtube.com/watch?v=VZsqK5AmE2M&amp;feature=youtu.be">https://www.youtube.com/watch?v=VZsqK5AmE2M&amp;feature=youtu.be</a>
<b>Welcome address:</b> Dr. D Maiti, Director, ICAR-NRRI, Cuttack <b>Recommendation:</b> Conveners/ Rapporteurs <b>Guest of Honour:</b> Dr. M Muthukumar, IAS, Director (Agriculture), Government of Odisha <b>Chief Guest:</b> Dr. PK Agrawal, Vice Chancellor, OUAT, Bhubaneswar <b>Remarks by the President of the Society:</b> Dr. H Pathak, President, ARRW <b>Vote of Thanks:</b> Dr. MJ Baig, Organizing Secretary, 1 <sup>st</sup> Indian Rice Congress-2020		