



CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT, ODISHA
NATIONAL WEBINAR

on

“Smart Farming and IoT intervention”

18th June 2021

Resource Person

Prof. K.N. Tiwari,
Emeritus Professor,
Department of Agricultural and Food Engineering,
IIT Kharagpur.

Number of Participants: 213

Objectives

To built a system for monitoring the crop field with the help of sensors and automating the irrigation system.

Detailed report of the activity:

Webinar was organized by Centre for Smart Agriculture, Centurion University of Technology and Management in the motive of sharing the knowledge and practical experience of invited speakers on **Smart Farming and IoT intervention** dated June 18, 2021 from 3.30pm to 6.00pm.

Session was started with welcome address by Dr. Dipankar Bhattacharayay, Professor and Mentor, Centre for Smart Agriculture followed by guest of honour Dr. Devender Reddy. Introductory message is given by Dr. Sagar Maitra, Coordinator, Centre for smart agriculture. Dr. Dinkar Gaikwad gave a brief introduction of invited speakers.

The keynote Speaker Prof. K.N. Tiwari is Emeritus Professor, at Agricultural and Food Engineering Department of IIT Kharagpur. Prof. Tiwari has more than 36 years of experience in the field of Irrigation and Water Resources Management. He has taught several courses related to Land and Water Resource Engineering to UG/PG/PhD students. He has developed infrastructure for conducting indoor irrigation and on farm field irrigation laboratory and demonstration set-up of Microirrigation System at IIT Kharagpur. Major research infrastructure facilities are developed in the field of micro irrigation in field crops, protected cultivation structures, hydrology, water balance monitoring system in the experimental farm at IIT Kharagpur and Digital Image Processing facilities which are unique in the country and the World. He has developed Hardware and Software for precise application of water to the plants irrigated using Micro Irrigation (MI). Seven Patents are to his credit on these innovations. He has been the Principal Investigator of more than 10 Sponsored Research Projects dealing with water conservation and management which are the thrust areas of Water Resources and Management Development having national importance. Prof. K. N. Tiwari has published more than 100 research papers in the Journals of International Repute, 2 International monograms on Remote Sensing Applications, training

manuals and technical bulletins. He received UNESCO and DAAD Fellowships for Post Doctoral research studies. He has been honoured with the Fellow of the i) Indian Water Resources Society (IWRS), ii) Indian Society of Agricultural Engineers, iii) National Academy of Sciences (NASc) India, and iv) National Academy of Agricultural Sciences (NAAS). He is recipient of i) Eminent Water Resources Scientist Award (2016) of IIT Roorkee, ii) Rafi Ahmed Kidwai award (2014) of ICAR, New Delhi, iii) Hari Krishna Shastri Memorial award (2013) of IARI, New Delhi, iv) Shankar Memorial award (1998) of ISAE, and v) Commendation Medal (1994) from ISAE.

Second keynote speaker Mr. Krishna is a founder of Modern Acres India Private Limited which is an award-winning start-up in innovating modern agricultural techniques. Currently he is in active hydroponics research, consultation and deployment of rural micro-agricultural farms. Mr. Krishna is a full-time entrepreneur and works on embedded systems, system architecture & design at his startup. His goals have been trying to minimize human error and interaction at protected farms by maximizing the quality and quantity of production output, with a systematic, easy to use platform that's currently under development that will change the management of soil-less agricultural practices. Apart from that, He is the winner of awards such as Startup Odisha Yatra 2019 and Odisha Agri Hackathon - Sri Sri Univ. 2019 and Best B-Plan at IIIT Allahabad 2019 and many other Hackathons and accolades like "Young CEO" & Best Startup founder by National Skill Development and Entrepreneurship (NSDC) to name some.

Third Keynote speaker Mr. Ashish is an alumnus of NIST, Berhampur (graduated in year 2000), Mr. Asish started off in the corporate world. From a cushy job in a Telecom MNC to farming, Mr. Asish has seen it all. This was in August 2018. The first seed of green, natural, and healthy farming was sown and Bloomenara was born. Mr. Asish is one of those new-age farmers who have given up their corporate jobs and have taken a plunge into farming. Mr. Asish's vision to convert conventional farming into innovative farming so we can free our food and land from chemical and harmful pesticides and to save our earth, our health, our upcoming generation, the entire humankind, the entire animals that are directly or indirectly dependent on farming and the future of the world.

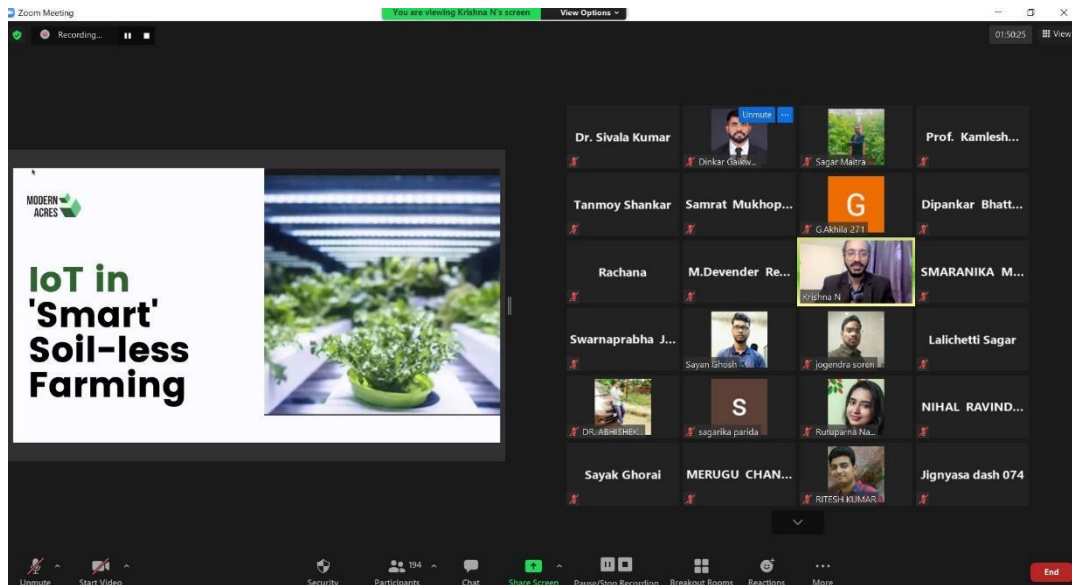
The Webinar was attended by 213 participants. Programme was moderated by Dr. Sivala Kumar, Professor, SoABE and votes of thanks were given by the Moderator.

The objective of the webinar was achieved. The overall session discussion benefitted the faculties and this webinar would help the participants to do their implementation in research centre work.

Outcome

Participants learnt how IoT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems., and also came to know how farmers and associated brands can easily monitor the field conditions from anywhere without any hassle

Photographs of the session on Smart Farming and IoT Intervention:



Brochure related to the event:

Centurion University of Technology and Management, Odisha
M.S. Swaminathan School of Agriculture
Research Centre for Smart Agriculture

Webinar on Smart Farming and IoT Intervention

Speakers

Prof. K.N. Tiwari
 Emeritus Professor
 IIT Kharagpur

Mr. Krishna N.
 Embedded System Engineer
 Founder: Modern Acres India

Mr. Ashish Ranjan Subudhi
 Chief Agripreneur
 Founder: Bloomenara

Organizer
Centre for Smart Agriculture

Moderator
Dr. Sivala Kumar
 Professor (Agricultural Engineering)
 MSSoA, CUTM

Coordinators
Dr. Sagar Maitra
 Professor and Head (Agronomy)
 MSSoA, CUTM

Dr. Dinkar Gaikwad
 Assistant Professor (Plant Physiology)
 MSSoA, CUTM

Friday 18th June 2021

Programme Schedule

Time	Topics	Speakers
3:30 PM	Welcome Address	Dr. Dipankar Bhattacharjy Professor and Mentor, Centre for Smart Agriculture
3:35PM	Guest of Honour	Dr. Devender Reddy Professor and Dean, MSSoA, CUTM
3:40PM	Introductory Message	Dr. Sagar Maitra Co-ordinator, Centre for Smart Agriculture
3:45PM	Speakers Introduction	Dr. Dinkar Gaikwad Co-ordinator, Centre for Smart Agriculture
3:50 PM	ICT and IoT Application in Micro Irrigation Automation	Prof. K.N. Tiwari Emeritus Professor, IIT Kharagpur
4:30 PM	IoT Interventions in Soilless Cultivation	Mr. Krishna N. Founder: Modern Acres India
5:10 PM	Farming and Agri-Enterprise: The Difference	Mr. Ashish Ranjan Subudhi Founder: Bloomenara
5:50 PM	Vote of Thanks	Dr. Sivala Kumar Moderator, Centre for Smart Agriculture

Registration Link
<https://forms.gle/wxeup5LvtgqH5AA>

Session Link:
<https://us02web.zoom.us/j/86416826895?pwd=YTUHQnNlUDF3bG5UdVZlQmYmVlMmE2Zz09>

To Join the Webinar use the below mentioned Session Link, Number & Password
 Session ID: 864 1682 6895
 Session Password: 07321X

****E-Certificates will be issued to the participants****

List of Participants

S.No.	Name of the Participants
1.	k v sriharsha
2.	Hariharan Neeli
3.	Saubhagalaxmi Singh
4.	Abhisek Mishra
5.	Limbraj Pholane
6.	shekhar kumar sahu
7.	DILLIP NAYAK
8.	Dr. Sujata Chakravarty
9.	Abhimanyu Kumar Patel
10.	Shivani Nanda
11.	Jitendra Pramanik
12.	Figlu Mohanty
13.	Amit Kumar
14.	Deepti patro
15.	Dr.Prafulla Ku Panda
16.	SAMPAD KUMAR PANDA
17.	Arun G
18.	DEBARAJ RANA
19.	PRATYUSH KUMAR BEHERA
20.	Kamal Kumar Barik
21.	Sridhar Palo
22.	Ashok Panigrahi
23.	Nagesh Kolagani
24.	Mamata
25.	Sunil Raju
26.	Ashrumochan Mohanty
27.	Ananya Mishra
28.	Anant Tamang
29.	Sai Prasad S.
30.	Subhankar Debnath
31.	Chandan kumar
32.	Ansuman Mohapatra
33.	Dr Santiswarup Sahoo
34.	SACHIKANTA NANDA
35.	Sidhartha patra
36.	Dr. U. Kumara ganesh
37.	Peeyush Gupta
38.	Madhurimadas
39.	Dr. Sandeep Rout
40.	Rishikesh Sahoo
41.	LOGANATH S
42.	SHASANKA SEKHAR BARIK
43.	Dr. Hari Om Verma
44.	Dr. Soumik Ray
45.	Ashish Patel

46.	Sai soumya Shubhanka
47.	Mr. Debi Prasanna Behera
48.	Abhijit Behera
49.	Mohit Ranjan Dutta
50.	Sahu Pragati
51.	Srilakshmi Gurunathan
52.	Swathi
53.	preeti patnaik
54.	Chintada PrasannaKumar
55.	Sharmishtha Sahu
56.	BIDYARANI KARUA
57.	KAMALI SRINIVASAN
58.	Mayamanikandan Thangavelu
59.	Ajay
60.	Annadasankar Bera
61.	Dr. Suresh D
62.	SOUMITRA BANERJEE
63.	P.SURYA
64.	Dr. C. Jenifa Latha
65.	Jyotirmayee Behera.
66.	Surendar
67.	Dibin Paul
68.	MOHAMED SHEIK ISMAIL R
69.	Poongodi
70.	Vaishnavi
71.	Aiswarya K P
72.	Ligi Jose
73.	Tincy Varghese
74.	Mr. ASHISH YADAV
75.	Amit Yadav
76.	Ameersha muhammed O P
77.	Tripta Singh
78.	Dr.Shashikala Laxman Bhalkare
79.	Kumari lakshmaiah
80.	Dr. Shashank Singh
81.	Sundaram m
82.	Samiran Patra
83.	Ashish Singh
84.	ADITYA KUMAR
85.	Saurav s kumar
86.	ASISH KUMAR SAHOO

87.	Soubhagya Ranjan Barik
88.	Smaraki priyadarshini
89.	Chinmayee Behera
90.	RAHUL R.
91.	Debasmita Pattnaik
92.	J.Yamini Jyothirmayi
93.	Lekkala venkata Ramana Reddy
94.	Pallabi Mohapatra
95.	Anagani.Revanth
96.	S Sai Preeti
97.	Sonamika Satapathy
98.	Mr.S.RAJAMANICKAM
99.	GARI VENKATA SIVA SURYA
100.	Ravi Kalyan
101.	Asima Mishra
102.	Saritha. S
103.	Kammonlal Lhouvum
104.	Senthilraja Chinnaiyan
105.	Mrutyunjay rout
106.	Nirupama chinara
107.	Dr.M.A.Badhul Haq
108.	Jagadish panda
109.	Anshika pathak
110.	Shubham kanaujiya
111.	Iffat Jahan
112.	V Ramabhai
113.	Arul Delpun Sudha
114.	Devupalli Dinewsri
115.	Golla Supriya
116.	Smrutiranjana Dalei
117.	Jogeswar Mishra
118.	Kola Akhila
119.	Ravi Sagiraju
120.	Achyuta Vamsi

121.	M.RANGANATHAN
122.	Mr. Mahidhar Bolem
123.	Anwesh Satapathy
124.	Brijesh das
125.	Ch. Anil
126.	Situsmita sethi
127.	Hruday Pradeep Jena
128.	Nitish Kumar Sahoo
129.	PAIDI SRIVAISHNAVI
130.	Ch lekhanu hanu
131.	Valurouthu Lavanya
132.	Gunti.Charitha
133.	Laxmipriya kar
134.	Thondamallu Siri
135.	Palakaluri.kalyani
136.	Avinash pilli
137.	Avinash Barru
138.	Kurmapu upendra
139.	Penubothu Prem sai
140.	Chitrasena Padhy
141.	Chandan suragala
142.	Geni Bhargava
143.	Dhruba Mandal
144.	Suvam Kanungo
145.	Mayank Bhushan Singh
146.	Karubaki Bhanjadeo
147.	Nirmal T
148.	Dr Prakriti Dwivedi
149.	SANDEEP SHANKAR PATTANAİK
150.	Rohit Das
151.	Hritu Marko
152.	KURAPATI NAGENDRASAI
153.	RINCHEN NOPU BHUTIA
154.	PURNENDU PRAMANİK

155.	PARVAIZ AHMAD GANIE
156.	Anirudh Kumar
157.	Dr. Devanand T N
158.	Abilash Elavarasan
159.	Archana Santhosh
160.	Dr. Milind B Katare
161.	WANSHAPHRANG TIEWSOH
162.	Priya Maria Vinesh
163.	Jitendra Pramanik
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