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2021



Souvenir

International Conference on Agriculture and Rural Development (ICARD-2021)

July 30-31, 2021

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8th International Conference on Agriculture and Rural Development (ICARD-2021)

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About Conference

8th International Conference on Agriculture and Rural Development (ICARD-2021)

During the worldwide lockdown due to COVID 19 pandemic, a lot of important activities have come to a halt. However, when we look at the brighter side, all of us have more time for adding to our knowledge and insights.

With this aim, to keep contributing to learning and motivation International research and development Center for publication is going to organize a two-day International Conference with the title “**8th International Conference on Agriculture and Rural Development (ICARD-2021)**” on Jul 30-31, 2021 through online mode.

We hope, this online mode of the conference in COVID-19 pandemic will be an appreciable step in promoting the research activities and new information between researchers, developers, students, academicians and practitioners working in and around the world by keeping the social distance in view to stop the spread of COVID-19 disease. This conference aims is to present the current researches being carried out in the field of social science and education development around the globe.

Prospective authors from academia as well as industry are invited to submit their abstracts that illustrate original/unpublished works and industrial applications describing advances and significant innovations in the field.

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Message

I am extremely pleased to share that International Research and Development Center for Publication (IRDCP) is organizing a two days “**8th International Conference on Agriculture and Rural Development (ICARD-2021)**” on Jul 30-31, 2021.

I am sure the state of art lectures from the invited experts and the research findings of researchers, academicians, utility engineers will enrich the knowledge of all the participants. It will provide an excellent opportunity for students to learn new ideas.

I offer my best wishes to the whole team of the organizing committee, the participants, and volunteers for the grand success of the conference.

Dr. Naick Kisjori
Convenor ICARD-2021

Message

I am happy to know that International Research and Development Center for Publication (IRDCP) is organizing a two days “**8th International Conference on Agriculture and Rural Development (ICARD-2021)**” on Jul 30-31, 2021. I am sure that, this conference would provide an ideal platform for the academicians, scholars and experts to present and exchange their research findings and Ideas.

I wish the conference a great success.

Prof. (Dr.) Jakir Hussain Qureshi

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*Management of flea beetle infesting lady's finger (*Abelmoschus esculentus* (L.) Moench) and environmental sustainability*

Sunil Kr. Ghosh

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Abstract of ICARD-2021

Management of flea beetle infesting ladys'finger (*Abelmoschus esculentus* (L.) Moench) and environmental sustainability

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Abstract— Ladys'finger or okra (*Abelmoschus esculentus* L. Moench) is an annual vegetable crop grown in tropical and sub-tropical areas of the globe. In the sub-Himalayan region of north east India the crop is cultivated throughout the year from the 9th to 45th Standard Meteorological Weeks (SMW) which excludes the winter months. The crop is susceptible to various pests of which flea causes heavy damage. The pest was active throughout the growing period with a peak population (5.67 flea beetles/plant) during 26th SMW (last week of June) in the pre-kharif crop. Again population reached higher (3.33/plant) on the 37th SMW (2nd week of September) in the post kharif crop. Sudden fall of population was found during July-August because of heavy rains. Flea beetle population showed significant positive correlation ($p=0.05$) with average temperature, relative humidity, whereas significant negative correlation with rainfall. This study evaluated the efficacy of azadirachtin, extracts from plants such as *Polygonum hydropiper* L. floral part and *Pongamia pinnata* L. fruit, tobacco leaf and garlic against flea beetle and compared with the ability of profenophos. Profenophos was found the most effective treatment for controlling flea beetle, followed by the azadirachtin and *Polygonum*. It was observed that azadirachtin and extracts of *Polygonum* plant gave moderate to higher flea beetle control, recording more than 50% mortality and produced higher yield. Azadirachtin and Plant extracts are biopesticides having less or no hazardous effects on human health and environment. Thus they can be incorporated in Integrated Pest Management (IPM) programmes and organic farming in vegetable cultivation.

Keywords— Vegetables, Seasonal fluctuation, Bio-pesticides, IPM, Organic farming.

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