

Courtesy Photo for I-O

**COMPETED IN MEDICINE HAT** — Jerek Shephard, 14, second from the left, recently competed in Medicine Hat with the 2017 Montana-Alberta Cup Boys Team. The boys from Montana lost a close golf match with 18.5 to 17.5.

# **Conrad ARC to host 2018 Western Regional Meeting**

### By Gadi V.P. Reddy, Ph.D.

Professor Dr. Gadi V.P. Reddy was selected as the Chair for the forthcoming multistate meeting, W4185 Biological Control in Western United States, to be organized and held in Montana on October 10-12, 2018 (http://ucanr. edu/sites/W2185/Officers/).

Dr. Reddy and the team members will work on identifying the meeting location from the list of places in Montana, such as Great Falls, Whitefish, Kalispell, and Polson. Dr. Reddy will present details about the listed locations at the 2017 multistate meeting to be held in Riverside, CA, on October 3-5, thus enabling the larger group members to select the location for the 2018 meeting. Traditionally, 100–120 scientists from the US, France and Canada have attended this meeting.

Although pesticides still play

techniques are becoming highly relevant today because of their cost effectiveness and environmental safety. One of such sustainable pest management programs working effectively in Montana State is biological control and it falls within the ambit of IPM. For that matter, in nature, insect populations are suppressed by naturally occurring organisms such as pathogenic microbes (e.g., bacteria and fungi), and nematodes, further to predatory and parasitic organisms that feed on insects and mites.

Presently three wide-ranging, and to a certain extent, complementing methods of biological management are practiced: the most popular classical biological management technique, viz., introduction of established natural enemies from locations they live naturally into new environments, a key role in managing pestifer- further to conservation and augous insects and mites, sustainable mentative biological management techniques. The conservation biological management tactic is perhaps the most significant among the available biological management practices, which is attractive to farmers. Insect natural enemies come about in all production systems, from the terrace garden to the commercial field. In the classical biological management practice, the introduction of a potential natural enemy sourced from a foreign landscape takes place. Once the natural enemy is established to be effective in regulating populations of the pestiferous arthropods, then it passed through an intensive quarantine process to ensure that no undesirable organism, which can turn out to be a nuisance in later time, is

pest management tactics and introduced. The organisms found useful are reared in large numbers and released in the grower's field after intensive cross checking on the host relations of the introduced organism (e.g., Wapshere's centrifugal phylogenetic testing model).

Follow-up monitoring studies are conducted to determine whether the selected natural enemy establishes effectively at the release site, and to assess long-term benefits of its presence. The augmentative biological

control involves the additional release of insect natural enemies sometimes including generalist predatory and parasitic arthropods. Reasonably limited natural enemies can be released either at one critical time of the season or throughout the year (inoculative release) or huge numbers may be released (inundative release).

Biological control program has been successfully implemented in Montana for the control insect and weed species for many vears.

actively on monitoring the establishment of these parasitoids. In addition, role of wheat midge predators (e.g., different species of carabid beetles) on controlling wheat midge are being explored in laboratory and field conditions in Conrad. Bracon cephi and B. lissogaster, parasitoids of wheat stem sawfly (Cephus cinctus, Hymenoptera: Cephidae). Bathyplectes spp., alfalfa weevil parasitoids are known to occur in Montana. Researchers working on dif-

ferent aspects of biological management in the Western US (and in other landscapes including similar cropping systems, and therefore similar pestiferous insect and mite problems) will meet every year to share their findings and to discuss new technologies and methods, and also identify new areas for future research. By tradition, this meeting will be held every year in the one of the Western States of the US. The Conrad Agricultural Research Center of the Montana State University is pleased to announce its leadership and participation in convening the 2018 meeting, which should result in useful and productive outcomes for the Montana landscape.





Buckwheat and for supporting 4-H

Sadie Vermulm, 4 Leaf Clovers 4-H







Since 2012, Western Triangle Agricultural Research Center in Conrad has been actively introducing appropriate natural enemies for various pestiferous insects.

For example, the parasitoid, Macroglenes penetrans, which parasitizes the wheat midge (Sitodiplosis mosellana) has been introduced in Montana in 2014. Populations of M. penetrans are well established presently in the wheat-midge-infested spring wheat fields of Montana. Recently two additional parasitoids, viz., Euxestonotus error and Platygaster tuberosula have been released in 2016.

The Entomology/Insect Ecology team has been working



## Administrative **Deputy position** approved

On Aug. 16, the Pondera County Commissioners met, and:

Commissioner Tom Kuka moved and Commissioner Dale Seifert seconded to approve the job description for an Administrative Deputy for the Sheriff Department.

The position is a newly created position; salary will be paid by the Sheriff Department. The motion carried.





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### Every year in Montana, money and other personal assets go unclaimed. You or someone you know may be one of the owners of that unclaimed property held in trust by the state.

Perhaps you forgot about a checking or savings account, let a check go uncashed, or lost track of an old gift certificate, stock or safety deposit box. It's worth checking for your name on our list of property reported to the State of Montana from July 1, 2016 through June 30, 2017.

We've listed property in this publication by the county where the apparent owner's last known address was reported. If you find your name on this list, go to revenue.mt.gov, click on the Find Your Unclaimed Property banner and then click on Click for Cash. Click on Search for Unclaimed Cash to begin your free online search. This online service will also help you find and claim property reported to us before July 1, 2016. Note: This is a free online search! Some businesses offer help to find unclaimed property, but require a payment before you can discover if you have any property. While these are legal businesses, it is unnecessary to pay to reclaim your property.

For more information, call the Montana Department of Revenue at (406) 444-6900.

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