

NWACC Interim Report
Submitted September 12, 2008

PROJECT TITLE:

**LepID: An online image analysis and pattern recognition tool for Lepidoptera
identification using a “Signature” image**

Project Director: Jeffrey C. Miller

Department: Department of Rangeland Ecology and Management

Institution: Oregon State University

Eligibility Code: G804-17

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Other Participants: Hans Luh

Expenditures:

Line item budget providing salary of \$3,000 to Hans Luh has been drawn.

No other expenditures to date.

Positions filled:

None requested.

Work accomplished:

1. The project web site has been created. The URL is <http://ipmnet.org/lepid/>
2. About 35% of the image processing functions (such as image cropping and enhancement) have been performed.
3. An image database consisting of 500 species of moths and butterflies has been created. The images will be used as a reference library for comparing unknown input images.

Timeline for completion:

1. Complete image processing functions – end of December, 2008.
2. Complete the activity of creating images consisting of signature profiles for testing against the reference library – end of January, 2009.
3. Conduct tests for identification of signature images by searching the reference library containing whole organism profiles – end of February, 2009.
4. Continuous updating of website.
5. Upload the interactive identification search program into the website – end of March, 2009.
6. File final report – April 13, 2009.