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**Cobwebs**



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**Dr. John Shontz Retires**



**Biology Club and βββ  
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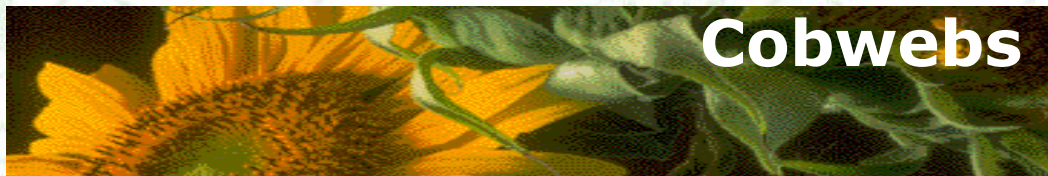
**Pre-Veterinary Club  
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**Student Scholarship Day**



Dr. Jorge Lopez



**GVSU Biology Department**

## *Notes From the Chair*

Greetings from the Biology Department. As usual, changes continue in the Department and across campus. The fact that I am writing the "Notes from the Chair" is an example. But this is only temporary given that Shaily Menon is on sabbatical and will be back in a month.

As enrollments continue to increase, the Department continues to work at adding new faculty. This year, Jorge Lopez joined the Department and brings not only new expertise, but a suite of hobbies like mountain climbing, auto racing, and sky diving.

Inevitably, the time comes when the reverse process occurs, and this year the Department will lose three members of the faculty. John Shontz and Paul Huizenga have announced they will both retire this summer. John and Paul have dedicated their careers to providing educational opportunities to GV students and we will miss both of them. Also, Katherine Kantz will be leaving at the end of the winter semester. We all express our appreciation to Katherine for the contributions she has made to the Department and wish her all the best.

In an effort to continually improve our academic programming, the Department continues to expand the undergraduate offerings and graduate courses for the new M.S. in Biology. The most recent addition is a new interdisciplinary program in cell and molecular biology. We certainly hope that we will be able to continue to expand our programming as new fields emerge and opportunities arise.

The Department extends warm wishes to all of our alums, and hope that you will stop to visit and see some of the recent changes. Please check the Department web page for updates and announcements of upcoming events.

Best regards,  
Mark Luttenton

## **New Faculty Member**

Dr. Jorge Lopez joined the Biology Department in the Fall of 2004. He received his B.S. at the University of California at Davis. His graduate studies were at the University of Chicago (M.S.) and at Indiana University (PhD.). During his training, Dr. Lopez researched animal communication among marmots living in the mountains of Pakistan, symbiotic interactions between fungi and grasses in Arizona, and tropical ecology in Costa Rica. These travels sparked his interest in evolution, and now he studies the evolutionary and ecological relationships between parasites and their hosts.

His PhD. work investigated the influence of environmental factors on the prevalence and distribution of parasites. His current research investigates the evolution of virulence, the approaches used to study the transmission and aggregation of parasites, and emerging diseases. Dr. Lopez uses flour beetles (*Tribolium* sp.) in his laboratory experiments, as well as computer simulations. These study systems are ideally suited for involving students in research.

When he is not teaching or doing research, Dr. Lopez spends time skydiving, car racing and mountain climbing. He also travels frequently, especially to South America where he grew up.

We'd appreciate feedback! Please e-mail [biodept@gvsu.edu](mailto:biodept@gvsu.edu) or call 616-331-2470 for any suggestions or comments.



# C.L.A.S. Dean

It is my pleasure to offer greetings to the Biology and Natural Resources Management majors and alumni. I have had the pleasure (well, *mostly* pleasure) of serving as the Interim Associate Dean of Science and Mathematics within the College of Liberal Arts and Sciences (CLAS) since last May. Prior to this role, I served as the Assistant Dean with the Science and Mathematics Division since 1999. On July 1, 2004, the prior Science and Mathematics Division (along with the former Social Sciences and the Arts and Humanities Divisions) ceased to exist. These three independent Divisions were merged together into CLAS. On this same date, Fred Antczak assumed duties as the Dean of CLAS.

First, I thought I would share some background on why the reorganization occurred and how it might affect students. GVSU was founded on the principles that students should be liberally (widely) educated in the arts and sciences. The structure of the General Education program at GVSU provides a mechanism for assuring that students receive this liberal education. Simply put, GVSU aspires to offer the best undergraduate education in the liberal arts and sciences among the public universities in Michigan. As the university grew in size, it became more and more difficult to make connections among the arts and sciences disciplines – both for faculty and students. A driving force behind the reorganization of the old Divisions into CLAS was to help strengthen the general education experience and for it to be easier to make these connections. The structure of CLAS makes it much easier for the faculty in Art and Design to know what is happening with the faculty in Chemistry and how they can learn from each other and work together. The same goes for faculty in History and Psychology; for faculty in Mathematics and Philosophy; etc. When these kinds of connections can be made, it makes for a richer academic experience for all students, regardless of major, and the potential for interesting interdisciplinary collaborations among faculty and students across the university.

Quite frankly, CLAS is the heart of Grand Valley State University. It is by far the largest of Grand Valley's colleges, with 17,000 students, almost 400 tenure-line faculty, nearly 50 bachelor's degrees, 7 (and a growing number) of graduate degrees, and well over 1,000 courses!

Now I'll share a little more about Dean Antczak. He is actually a "hometown" boy – he grew up on the west side of Grand Rapids and he was a 1970 graduate from West Catholic. He completed his undergraduate education at the University of Notre Dame in 1974. His M.A. and Ph.D. were earned in 1976 and 1979, respectively, both from the Committee on the Analysis of Ideas and the Study of Method at the University of Chicago. Prior to coming to GVSU, he taught in the Rhetoric Department at the University of California-Berkeley, the Department of Rhetoric and Communication Studies at the University of Virginia, and for seventeen years in the Rhetoric Department at the University of Iowa. At UI he served for six years as a department chair, and six years as associate dean for academic programs.

He is the author of a variety of articles, reviews, and books. His first book, *Thought and Character: the Rhetoric of Democratic Education*, won a Phi Beta Kappa Book Award. He also has an impressive list of teaching recognitions, that include the Thomas Jefferson teaching award "for best embodying the educational ideals of Thomas Jefferson" at the University of Virginia, the Collegiate Teaching Award at the University of Iowa, and the 2002 recipient of the Iowa Communication Association "Citation" award for lifetime contributions to the teaching of communication in the state of Iowa.

Dean Antczak has served the rhetoric discipline in a variety of ways including as President of the Rhetoric Society of America in 2000 and 2001. In 2004, he was named as one of the first five Fellows of the Rhetoric Society of America, for outstanding accomplishments in teaching, research and service.

Submitted by: Professor Neal Rogness



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C.L.A.S. Dean



Dr. John Shontz  
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Dr. John Shontz

## Dr. John Shontz Retires

Dr. John Shontz arrived at Grand Valley in early September, 1974. At that time there were just over 4,000 students enrolled in the four undergraduate colleges that composed Grand Valley State Colleges. The Biology Department consisted of eight full-time faculty members. About 1980, Grand Valley shifted from quarters to semesters and in 1982 all the undergraduate colleges were merged to become Grand Valley State College. Later in the 1980's, the name was changed once again to Grand Valley State University. Today the Biology Department consists of 29 full-time biologists and 5 natural resource managers. The university now has more than 22,000 students.

Beginning that fall and continuing for the next 36 years he taught General Ecology every fall. Grand Valley was on the quarter system then and he also taught General Ecology in the spring quarter. Over the years Dr. Shontz taught Systematic Botany many times, a course called Physiological Plant Ecology, Plant Structure and Function, Vascular Plants, Non-Vascular Plants, Plants and Fungi, as well as general biology. Beginning in the early 1980's, he and Dr. Ward together began to teach Ecology of the Great Lakes. Dr. Shontz continued to teach that course in alternate summers up until the present. In the late 1980's he developed and taught a graduate course in the summer called Plants of the Great Lakes Area. Early in the 1990's, Dr. Shontz put together a course for the Honors College called Plants and People and has taught it at least once a year ever since. A number of alumni will remember the course in sub-tropical biology that Dr. Ward, Prof. Huizenga and Dr. Shontz took to the Florida keys for several years. In 1997, he, Dr. Nicholson and Dr. Nancy Shontz took a class to Costa Rica for two and one-half weeks to study tropical ecology. They had a wonderful time learning about the cloud forests, lowland tropical moist forests, the tropical seasonal forests and the impact of human activities in this tropical paradise.

For ten years, from 1979 to 1989 Dr. Shontz was chairperson of the Biology Department, and for the last two years of that time he was also chairperson of the Natural Resources Management Department. Ten years is the longest anyone has chaired the Biology Department. Several of those years were very trying due to statewide budget issues. It was often a real challenge to meet the needs of our classes within the severe limitations of funding.

During his tenure at Grand Valley, Dr. Shontz took four sabbatical leaves. Two as a visiting Professor at the University of Arizona where he conducted research on the phenology and water relations of desert spring ephemerals, one when he did the major writing on a book on ecology of the Great Lakes basin, and one when he developed and taught science activities to fourth and fifth graders. For the last five years he has been studying the phenology and habitat requirements of snow trilliums, a spring wildflower that is endangered in Michigan. Over the years he has spent a great deal of time learning about the Lake Michigan sand dunes and has developed expertise about them.

From 1989 until 2002 Dr. Shontz was a very active member of the University Curriculum Committee, including a term as its chairperson. He says he can still see his imprint on several curricular decisions that today shape GVSU.

From January through August, 2004, Dr. Shontz was the Interim Director of Grand Valley's Honors College. This change of assignment gave him the opportunity to work with academically gifted students and to be a mentor for them. He considers this experience a highpoint of the last several years.

Dr. Shontz remarked that upon retirement he will miss his students the most. He always enjoyed interacting with them and watching them grow as biologists and people. He is very proud of the careers he has been able to follow learn about all the great things they have done and the wonderful world citizens they have become.

If you would like to contact Dr. Shontz, you can email him at [shontzj@gvsu.edu](mailto:shontzj@gvsu.edu).



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# Biology Club and βββ News

The Biology Club started out the year in full swing! In September, we participated in the Lake Michigan Federation's annual Beach Sweep at the Grand Haven State Park, and we also did our annual ravine cleanup under the Little Mac bridge on the Allendale campus. In October, we met with alumnus Michael Henshaw to discuss his research with wasps and his experiences in grad school. Also we signed a petition that charges Dow Chemical Company to own up to its harmful environmental mistakes. At the end of October, we went on a behind-the-scenes tour of the John Ball Zoo. After that, we had some fun on a hayride at Char VanderHoning's farm, and we finished the semester with a holiday card-making party for the Sunset Manor Assisted Living Center in Jenison.

During the winter semester, we will be having a bake sale, we will be going rock climbing at the Rec Center's new climbing wall, and we will be going on our annual trip to Chicago. To learn more about the Biology Club's activities, visit our website at [www2.student.gvsu.edu/~bioclub](http://www2.student.gvsu.edu/~bioclub).

Our Xi Omicron Chapter of the Tri-beta Biological Honor Society held an induction ceremony in late January, at which we inducted nine new members. Hoang Le and Amanda Whitsel were inducted as associate members. Courtney Hosack, Nicole Lorenc, Natasha Schiller, Erin Lindblom, Andria Salas, and Sara Smolinski were inducted as regular members, and Elizabeth Tejchma was promoted to regular membership.

All in all, we have had a successful year so far, and we are looking forward to our upcoming activities. There is a new club on campus in which biology students can take part. The Biology Club would like to welcome its sister club, the Biochemistry and Molecular Biology Club of GVSU.

2004/2005 Officers: Sara Smolinski, President; Bruce Underwood, Vice President; Nicole Lorenc, Secretary; Katie Byrne, Treasurer; Bruce Ostrow, Faculty Advisor.

Submitted by: Sara Smolinski. President

## SWCS News

This year's Soil and Water Conservation Society (SWCS) officers include Jaime Fluegge (President), Lisa Beranek (Vice President), Stephanie Baker (Secretary), Rebecca Feuerstein (Treasurer - fall semester), and Bill Poelma (Treasurer - winter semester). Neil MacDonald continues his roll as our Faculty Advisor. Fall 2004 activities included our annual M-45 Highway clean-up, a guest speaker, Wendy Olgivie, 2004 SWCS State Chapter President, and a visit to Manistee National Forest, where we learned about the wildlife, vegetation, and management of the area. On this trip lots of pictures were taken and a good time was had by all. We ended the semester by attending the annual SWCS meeting in Lansing. Prior to the meeting a few of us visited the Tolgate Wetlands which is a constructed wetland designed to treat residential storm water; it is an amazing system and anyone interested in wetlands should consider planning a visit. Winter 2005 activities are on going. Before spring break we enjoyed a fun evening of bowling, patiently awaiting the arrival of spring and outdoor activities. Later this semester we hope to participate in a stream bank stabilization project and macroinvertebrate survey. Other activities may come up ... but thus far we are all having a great time working together to improve our environment, and learning along the way.

Submitted by: Jaime Fluegge, President



Cobwebs



C.L.A.S. Dean



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# Biochemistry and Molecular Biology Club

In September 2004, GVSU formed a new Biochemistry and Molecular Biology Club, which is not only a university organization, but also an official affiliate for the American Society for Biochemistry and Molecular Biology (ASBMB). The club aims to provide an atmosphere that allows students from multiple departments to interact and draw useful information from each others' experiences. Forty-five GVSU students from multiple scientific departments (Biology, Chemistry, Cell and Molecular Biology, and Biomedical Health Sciences) have joined to learn more about biochemical and molecular biological research performed at graduate schools, research institutes, and in the biotechnology industry. Our club is one of the largest affiliates in the country, earning GVSU recognition on the ASBMB website (<http://curie.umd.umich.edu/ASBMB/regionalnews.htm>).

One of the main activities of the club is to host and attend seminars presented by current graduate students and professors from university and industrial positions in the region. While visiting GVSU, the various speakers present their research and inform students about the career opportunities available to them after their education at GVSU. In the fall semester, the club hosted two graduate students, Therese Roth (GVSU alumna) from the University of Michigan and Dan Appledorn from Michigan State University, to discuss their current research, and to answer questions about attending graduate school programs. In the winter semester, Dr. Leah Chase from Hope College presented her research in neurobiochemistry to about 80 students and faculty. On the future agenda, scientists from Calvin College, Van Andel Institute, and Western Michigan University will present their latest research and experiences at GVSU. In addition, a student member, Jessica Schoenherr, will present her work in an Undergraduate Poster Competition at the national meeting of the ASBMB on April, 2005 in San Diego, CA. She is a researcher mentored by Brad Wallar.

For more information on the GVSU Biochemistry and Molecular Biology Club, please see the official club website (<http://www2.gvsu.edu/~bmbclub/>).

2004/2005 Officers: Jessica Schoenherr (President), Chet Jelinger (VP of Operations), Betsy Haak (VP of Public Relations), Brad Robinson (Treasurer), and Hank Haringsma (Website Designer), Brad Wallar (faculty advisor).

Submitted by: Brad Wallar, Faculty Advisor



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# Pre-Veterinary Club

The Pre-Vet Club has continued to grow in size this year, welcoming in a wealth of new energetic members. The club began the exciting and productive year by baking and selling dog treats to raise funds for club activities. Students then visited a local dairy farm to get hands-on large animal experience and later hosted a drive to collect items from the GVSU student body, which were donated to the Humane Society of Kent County.

Members began the winter semester by baking and selling goods at a Valentine's Day bake sale and enjoying a presentation by Dr. Bruce Langlois, local veterinarian and veterinary director for the volunteer organization, Remote Area Medical. The club was privileged to host a presentation by Michigan State University College of Veterinary Medicine Admissions Director, Hilda Mejia Abreu, where students learned valuable information concerning entrance into MSU's veterinary school. Students will gain further insight into vet school as GVSU alumnus and current MSU CVM student, Bobbi Connor, will return to campus to host a roundtable discussion with club members. The club will continue their efforts to aid homeless animals by constructing cat scratch posts to be donated to local animal shelters and by hosting a second donation drive to collect much needed items for local shelters. The semester will wrap up as students travel together to East Lansing to take part in MSU CVM's annual Vet-a-Visit program.

The club advisor is Dr. Terry Trier and the 2004-2005 club officers are: President Ben Weaver, Vice President Katie Sian, Secretary Amanda Kulpa, and Treasurer Virginia Brown.

Submitted by: Katie Sian, Vice President



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Pre-Veterinary  
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## Scholarship Day 2004

### The following students participated in Scholarship Day 2004:

**Jennifer Bauer.** A GIS Database to Assess the Potential Spread of the Plum Pox Virus. Sponsor: Shaily Menon

**Kaleena Bernardi, Sarah Taylor.** Characterization of mRNA Coding for a Putative Soybean Vegetative Storage Protein. Sponsor: Margaret Dietrich

**Neil Besteman.** Applying GIS in Assessing Gypsy Moth Spread and Control in West Michigan. Sponsor: Shaily Menon

**Jennifer Boller.** Identification of a Nature Preserve to Aid in the Restoration of the American Bald Eagle Population in Ottawa County Michigan. Sponsor: Shaily Menon

**Jenny Brinks.** A Direct Test of the Sexually Transmitted Microbe Hypothesis of Avian Copulation in Tree Swallows (*Tachycineta Bicolor*). Sponsors: Michael Lombardo, Patrick Thorpe

# Scholarship Day 2004 continued...

**Josh Brinks.** GIS Applications and Management Plan for Red Pine at Ottawa County Parks. Sponsors: Carol Griffin, Shaily Menon

**Josh Brinks.** Salmon-Derived Nutrients in Terrestrial Ecosystems: Conservation, Ecological, and Managerial Implications. Sponsor: Heather Rueth



**Cobwebs**

**Barbara Brown.** Comparison of Digit Ratio in Male and Female House Sparrows. Sponsors: Michael Lombardo, Patrick Thorpe.



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**Michael Calkins.** Habitat Suitability Models for Amphibians at Bass River State Recreation Area. Sponsor: Shaily Menon



**Dr. John Shontz Retires**

**Ben Cutler, Kendra Grove, Emily Hohmann, Stephanie Januchowski, Danielle Jarois, Holly Nowak, Janice O'Neill, Joan Smith, Evan Wilson.** Patterns of Copulation Behavior in North American Songbirds. Sponsor: Michael Lombardo



**Biology Club and ßßß News**

**Jack DeGroot.** Incidence of Mosquitoes Carrying the West Nile Virus in West Michigan. Sponsor: Roderick Morgan



**SWCS News**

**Kevin Devormer, Todd Tiano, Catherine Willis.** Analysis of the Genetic Structure of Brown Trout. Sponsors: Mark Luttenton, Alexey Nikitin



**Biochem. & Mol. Bio. Club**

**Kevin Devormer, Todd Tiano, Catherine Willis.** Genetic Differences Between Strains of Brown Trout (*Salmo Trutta*) at the Oden State Fish Hatchery (Michigan). Sponsors: Mark Luttenton, Alexey Nikitin



**Pre-Veterinary Club News**

**Nicole Evans.** The Effect of Lrp5-deficiency on Mammary Hyperplasia in Mice Overexpressing Wnt-1. Sponsor: Nancy Shontz



**Student Scholarship Day**

**Angelica Fuentes.** The Effects of Zebra Mussels on the Downstream Transport of Primary Production. Sponsor: Mark Luttenton

**Andrw Haapala.** Mapping of Ionia State Recreation Area Through Digital Interpretations and Production. Sponsor: Carol Griffin

**Jacob Hargrove.** Comparison of Similar Habitat for Macro-Invertebrates and Water Quality in the Pigeon River and its Tributaries. Sponsor: Carol Griffin

**Jacob Hargrove.** Using GIS to Compare the Pigeon River Watershed and Associated Sub-Watersheds. Sponsor: Shaily Menon

**Kevin Hollebeek.** Analysis of Baxter State Park Trails Using a GIS. Sponsor: Shaily Menon

**Kevin Hollebeek.** Creating a GIS Map of Trail Data in Baxter State Park, ME. Sponsor: Carol Griffin

**Dustin Hormann.** Can GIS Predict Water Quality in Streams?. Sponsor: Shaily Menon

**Dustin Hormann.** Steelhead Diet in the Muskegon River After the Introduction of Zebra Mussels. Sponsors: Carol Griffin, Mark Luttenton

**Kenneth Hughes.** Geographic Information Assessment of Contaminants within the Little Black Creek. Sponsor: Shaily Menon



# Scholarship Day 2004 continued...

**Elaine Sterrett Isely.** Geospatial Analysis of Land and Water Features of the White River Watershed. Sponsor: Shaily Menon

**Heather Jahr.** Deposition of Pollutants into Waterways Surrounding Ski and Golf Resorts and Resulting Environmental Alterations. Sponsor: Shaily Menon

**Danielle Jarois.** Does Parental Size Influence Parental Investment in Largemouth Bass? A Multivariate Approach. Sponsor: Jodee Hunt

**Craig Johnson.** A Statistical Consulting Experience: Analysis of Biology Prerequisites. Sponsor: Patricia Matthews

**Stephanie Karczynski.** The Summer in a Forensics Crime Lab. Sponsor: Roderick Morgan

**Carly Kelly.** Effects of Habitat Alteration on Karner Blue Butterfly Populations. Sponsor: Shaily Menon

**David Kowalski.** Using GIS to Analyze Land Use/Cover Changes and Suitability for Development in Alto, Michigan. Sponsor: Shaily Menon

**Josh Loyd.** Timber Wolf and Deer Interactions Throughout Selected counties in the Upper Peninsula. Sponsor: Shaily Menon

**Fahmy Mamuya.** Allelopathy of Chara. Sponsor: Mark Staves

**Benjamin A. Mathew.** Multi-Use Trail Systems: Will Mountain Biking be the Death of It All?. Sponsor: Shaily Menon

**Daniel Mays.** Woodcock Habitat Management Plan for 20 Acres in Muskegon County, MI. Sponsor: Carol Griffin

**Jill Mihelich.** Conservation of the Vulnerable Beautiful Nuthatch, Sitta Formosa: A Preliminary Analysis of Species Distribution and Habitat Requirements. Sponsor: Shaily Menon

**Andrew Moore.** GIS and Natural Resource Management Evaluation of Millenium Park. Sponsor: Shaily Menon

**Angela Mrozinski.** GIS Applications to Assess Groundwater Sensitivity in Kent County, MI. Sponsor: Shaily Menon

**Angela Mrozinski.** Public Perceptions of Stormwater Sources and Effects. Sponsor: Carol Griffin

**Vickie Mukans.** Designing a Wetland Education Project for Allendale Public Schools. Sponsor: Carol Griffin

**Stephen Nelson.** Evolution, Understanding and Acceptance: A Student Statistical Consulting Experience. Sponsor: Stephen Burton

**Jason Okuly.** Core Cougar Habitat in Huron-Manistee National Forest. Sponsor: Shaily Menon



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Dr. John Shontz Retires



Biology Club and B&B News



SWCS News



Biochem. & Mol. Bio. Club



Pre-Veterinary Club News



Student Scholarship Day



# Scholarship Day 2004 continued...

**Mark Prusakiewicz.** Using GIS to Assess Land Use Change in Otsego County, Michigan. Sponsor: Shaily Menon

**Melissa Reneski.** Environment Affects Expression of Parental Behavior in Largemouth Bass: a Multivariate Approach. Sponsor: Jodee Hunt



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**Patrick Roth.** Does the Metabolic Energy Base in Sand-Impacted Streams Differ as Nutrient, Riparian, and Land-Use Conditions Change. Sponsor: Eric Snyder

**Aaron Rydecki.** Lyme Disease Spread Across Southwestern Michigan. Sponsor: Carol Griffin

**Mary Sievert.** Determining the Uniqueness of Blue Ribbon Trout Streams: A Landscape Scale Approach. Sponsor: Shaily Menon

**Kati Smith.** Genetic Analysis of Ranid Frog Populations in Three West Michigan Localities: A Possible Tool for Conservation Decisions. Sponsor: Karel Rogers

**Sarah Taylor.** The Effect of RGD Peptide on Somatic Embryogenesis in *Daucus Carota*. Sponsor: Sheila Blackman

**Joel Walen.** Survey of Farmers About Erosion and Surface Water Quality Effects. Sponsor: Carol Griffin

**Greg White.** Increasing Aesthetics and Wildlife Habitat to Meet Land Owner Objectives. Sponsor: Carol Griffin

**Anna Whitmore.** Increasing the Usefulness of a Nature Trail at the Home of Veterans. Sponsor: Carol Griffin

**Kristian Williams.** Developing a Conservation Plan for a Landowner in Van Buren County. Sponsor: Carol Griffin

## Scholarship Day 2005

### The following students participated in Scholarship Day 2005:

**Sarah Barnhard.** Photodegradation of Dissolved Organic Matter Along a Land to Lake Gradient in West Michigan. Sponsor: Bopi Biddanda

**Jenny Bauer.** Forest Management Plan for Gerber Boy Scout Camps. Sponsor: Carol Griffin

**Lisa Beranek.** Government Agencies, Native American Government and Effective Public Land Management. Sponsor: Carol Griffin

# Scholarship Day 2005 continued...

**Austin Boersema.** Creation of a Natural Prairie to Sustain a Pheasant Population. Sponsor: Carol Griffin

**Matthew Breen.** Gear Bias in Fyke Nets: Evaluating Soak Time, Fish Density, and Predators. Sponsor: Carl Ruetz



**Cobwebs**

**Michael Calkins.** Predicting Cougar (*Puma concolor*) Occurrence and Habitat Preferences in Michigan. Sponsor: Carol Griffin



**C.L.A.S. Dean**

**Joseph Caplinj.** A Conceptualized Project Involving a Relationship with Natural Resources Management. Sponsor: Carol Griffin



**Dr. John Shontz Retires**

**Stephen Denhof.** Protein Kinase N Expression in *Drosophila melanogaster*. Sponsor: Bruce Ostrow

**Joseph DeVol.** Effects of Exogenous Cytokinin Application on Morphological Development of Gametophytes of the Fern *Osmunda regalis*. Sponsors: Gary Greer, Margaret Dietrich



**Biology Club and  
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**Nichole Evans.** The Effect of Lrp5 and Lrp6 deficiency on Mouse Mammary Development. Sponsor: Nancy Shontz



**SWCS News**

**Jaime Fluegge.** Restoration Plan for a Slope at Bass River Recreation Area. Sponsor: Carol Griffin



**Biochem. & Mol.  
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**Stephanie Gamble.** Prototype of a Ride Sharing Program for Grand Valley State University. Sponsor: Carol Griffin



**Pre-Veterinary  
Club News**

**Ebony J. Grisby.** PCR Analysis of *Drosophila melanogaster* kinase N Genetic Region. Sponsor: Bruce Ostrow



**Student  
Scholarship Day**

**Elizabeth Haak.** A Fusion of Left and Right. Sponsor: Bruce Ostrow

**Henry Haringsma.** The Characterization of a Putative Vein1 Homologue in *Glycine Max*. Sponsor: Margaret Dietrich

**Brandon Haslick.** Trends in User Satisfaction of the North Country Scenic Trail. Sponsor: Carol Griffin

**Heather Jahr.** Best Management Practices for Reduced Erosion from Shanty Creek Resort. Sponsor: Carol Griffin

**Rebecca Kelbel.** Identification of Plant Homologs to the p60 Subunit of Katanin. Sponsor: Regina McClinton

**Carly Kelly.** Biological Controls of Spotted Knapweed, St. John's Wort and Purple Loosestrife. Sponsor: Carol Griffin

**Justin Liefer.** Plant Species Richness and Nutrient Availability Across a Wetland Inundation Gradient. Sponsor: Eric Snyder

**Josh Loyd.** Designing a Wetland Breeding Complex for Waterfowl. Sponsor: Carol Griffin



# Scholarship Day 2005 continued...

**Fahmy Mamuya.** Allelopathy of Chara. Sponsor: Mark Staves

**Benjamin A. Mathew.** Single-Track State of Mind: Banning Bikes in Wilderness. Sponsor: Carol Griffin



Cobwebs

**Matthew Metzger.** History, Issues and Future of Grand Ledge Climbing. Sponsor: Carol Griffin



C.L.A.S. Dean

**Brian Miller.** Developing a Forest Management Plan for a Private Landowner. Sponsor: Carol Griffin



Dr. John Shontz Retires

**Amy Noble, Ashley Leimback.** Pesticide Resistance in Codling Moth (*Laspeyresia pomonella*). Sponsor: Bruce Ostrow



Biology Club and  $\beta\beta$  News

**Mark Prusakiewicz.** Developing a Management Plan and Mapping a Natural Area in Holland, MI. Sponsor: Carol Griffin

**April Rebert.** Investigating Hormonal Controls of Development in Fern Gametophytes. Sponsors: Gary Greer, Margaret Dietrich



SWCS News

**Matthew Schaap.** Management of Ridge Point Church's Property for Grassland Birds and Wildlife Observation. Sponsor: Carol Griffin

**Derke Shiels.** Survey of Environmental Attitudes, Values, and Behaviors among Christians. Sponsor: Carol Griffin



Biochem. & Mol. Bio. Club

**Blair Spence.** Assessment of Wilderness Character in Selected National Forests. Sponsor: Carol Griffin



Pre-Veterinary Club News

**Joshua Stickney.** Diesel Fuel-Metabolizing Bacteria in Lake Sediments. Sponsor: Rod Morgan



Student Scholarship Day

**Matthew Strutz.** Comparative Analysis: Grazed v Non-Grazed Allotments on BLM Public Lands in the California Desert District. Sponsor: Carol Griffin

**Emily Van Dam.** America's Wild Horses: Past, Present, and Future. Sponsor: Carol Griffin

**Dana VanHaitsma.** Round Gobies as Prey: Energetically are They on the Same Playing Field as Native Species?. Sponsor: Carl Ruetz

**Brooke Van Rhee.** Assessing Attitudes and Behaviors of Muskegon River Residents about the Watershed. Sponsor: Carol Griffin

**Ryan Vilardi.** DNA Fingerprinting of Native Corn Varieties. Sponsor: Margaret Dietrich

**Jessica Wetherbee.** What is Genetic Counseling. Sponsor: Patricia Matthews

**David Wolma, Amy Kulon.** Ataxia Telangiectasia. Sponsor: Bruce Ostrow