



# NEMATOTOLOGY NEWSLETTER

An Official Publication of the Society of Nematologists

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DECEMBER 2012

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## From the President's Desk...

As we transition from 2012 into 2013, I would like to update you on a few things that we have been working on [see video via the link at <http://www.nematologists.org>]. This fall, after a long period of discussion and contemplation, the Executive Board voted to not to renew our membership in CAST. The EB felt that membership dues (\$1500 annually plus travel for our CAST representative) were not in line with the benefits we received. You have received electronic notification for two very important actions - your membership renewal and your vote on two constitutional amendments. Please renew

and cast your vote. If you have not already friended SON on Facebook, you might want to take a few moments and check us out. You can also sign up to follow SON on Twitter, an RSS feed, and look for SON on YouTube. I wish everyone a happy holiday and wonderful New Year.



## Renew Your Society of Nematologists Membership Today!!

It is that time of year to renew your SON membership if you haven't already done so. Renew before the end of the year so your membership won't lapse and you won't run into trouble when you submit an abstract or register for the meeting in 2013. **Remember** – SON memberships run on a calendar basis, January 1 to December 31 – so even if you renewed your membership around the time of the 2012 meeting it has expired!!

Membership has the following privileges:

- Reduced annual meeting registration rates
- Access to the current membership directory
- Access to special features on the website including voting and internet discussion groups.

But probably the most important part of being a member is supporting your science!!

Membership dues are the same as in previous years:

Regular membership \$60 + \$9.95 processing fee  
Student membership \$30 + \$9.95 processing fee

If you renew your membership or join for more than one year then you will only have to pay the \$9.95 processing fee once. For example, 2 years

would be \$129.95 (save \$9.95) and 3 years would be \$180.95 (save \$19.90). Not to mention you won't receive those pesky emails reminding you to renew every year!

Have questions about your membership? Need a personalized invoice? Need help renewing or want to renew by mail? Contact Lisa Miller at our Business Office for help (see information below).

Also, remember, **it takes 5 business days to process a membership**. This becomes important to remember when you want to submit an abstract at the last moment as a member and your membership is not current – woops, now you have missed the deadline.

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Submitted by  
Inga Zasada

Treasurer, Society of Nematologists

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Nematology Newsletter viewpoints are those of the contributors and are not necessarily those of the Society of Nematologists, the Executive Board, or the Nematology Newsletter Editor.

## News from Virginia Tech



Front row (L to R): Suzanne B. Ghali and Kendal Capps.  
Back row (L to R): Kemei Ding, Alisa Swenson, Ma Kpa, Weimin Ye, Jon Eisenback, Maren Vetter, and Janet Lack.

Dr. Weiman Ye, from the Nematode Assay Section of the North Carolina Department of Agriculture and Consumer Services, and seven Laboratory Technicians, visited the lab of Dr. J. D. Eisenback at Virginia Tech on October 16. The participants were introduced to several new techniques including the agar slab method of making temporary mounts of nematodes, the use of an annular ring in the stage condenser to increase the resolution for photographing perineal patterns, and identification of the four common species of root-knot nematodes from male head shape and stylet morphology. In addition the technicians learned about preparation and observation of nematodes on the scanning electron microscope.

Submitted by  
Jon Eisenback  
Virginia Tech

### Don't forget to vote!

There are two ballot measures that affect changes to the Constitution of the Society of Nematologists. The first deals with Appointed Executive Board Members, the second has to do with Committees and Society Representatives.

The polling period runs from December 10, 2012 through January 4, 2013 at 12:00 pm, MDT.

To vote, log in to your account at:

<http://nematologists.org/members/login.php>

For more information about the ballot measures see:

[http://nematologists.org/files/fck\\_uploaded\\_files/Proposed%20SON%20Constitution%20Changes%202012a.pdf](http://nematologists.org/files/fck_uploaded_files/Proposed%20SON%20Constitution%20Changes%202012a.pdf)

## News from the NemaLab/ ICAAM, Univ. of Évora, Portugal

1. Three new international students, from Ethiopia (Mudassir Iqbal <[mudassir\\_iqbal1831@yahoo.com](mailto:mudassir_iqbal1831@yahoo.com)>), Vietnam (Lam Anh <[iptanh02@gmail.com](mailto:iptanh02@gmail.com)>) and Pakistan (Asmamaw Teshome <[asmamaw.teshome53@gmail.com](mailto:asmamaw.teshome53@gmail.com)>), have arrived in September for another EUMAINE semester at Évora. EUMAINE is the European MSc program in Nematology and has been active since 2008 (<http://www.eumaine.ugent.be/index.asp>). Students are involved in practical lab and field work on pine wilt disease, participating in the European research project REPHRAME (see below).

2. REPHRAME: Development of improved methods for detection, control and eradication of pine wood nematodes in support of EU Plant Health Policy. Two Portuguese research institutions, including the University of Évora, participate in this 3-million € European research project, aimed at studying pine wilt disease, including the pinewood nematode and its insect vector. The projects initiated last year (2011) and will extend until 2014. Ten international partners are involved. A new project website has been established: <http://www.rephrame.eu>.

Last month, the mid-term meeting of REPHRAME took place in Estoril, near Lisbon, and partners were able to present results and share experiences and knowledge. New synergies were also established, including links with several US scientists interested in the issue and which have kindly supported collection of US isolates of the pinewood nematode. This task has been coordinated by Dr. Paulo Vieira, now living in Washington DC (and looking for a post-doc position...).

Submitted by  
Manuel Mota  
Universidade de Évora  
Évora, Portugal



**EUMAINE students (L to R) Anh Lam, Mudassir Iqbal, and Asmamaw Teshome collecting samples from a tree suspected of harboring pine wood nematodes.**



*Photos courtesy of M. Mota.*

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COBB  
NEMATOLOGY  
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# Expand Your Nematology Knowledge

## Attend a conference:

The **Fifteenth International Meiofauna Conference (FifTIMCo)** will be of interest to those members who work on free-living aquatic nematodes. The theme for the conference is "Biodiversity of Meiofauna." The conference will be held July 22-26, 2013 at Hanyang University in Seoul, South Korea. A pre-conference workshop is also offered. The workshop will be held July 15-19, 2013 at Chonnam National University in Yeosu, South Korea. Register before the end of February, 2013 to benefit from reduced fees. Complete details on the conference and workshop can be found at <http://www.fifitimco.kr>.

This is a triennial international conference sponsored by the International Associations of Meibenthologists (IAM) (<http://www.meiofauna.org/index.html>). This organization was founded in 1966 and has approximately 250 members. At their website you can view their biennial newsletter, Psammonalia.

Submitted by  
Jyotsna Sharma  
University of Texas at San Antonio  
San Antonio, TX, USA  
and  
Nikolaos Lampadariou  
Hellenic Centre for Marine Research  
Crete, Greece

## Participate in an interactive course:

**Identification of Terrestrial and Freshwater Nematodes for Ecologists / Environmentalists** will be taught at the Laboratory of Nematology, Wageningen University. The course will run from June 3 through June 14, 2013. For more information, visit the course website at:

<http://www.wageningenur.nl/en/Expertise-Services/Chair-groups/Plant-Sciences/Laboratory-of-Nematology/Education/Other-courses/Identification-of-terrestrial-and-freshwater-nematodes-for-ecologists-environmentalists.htm>

Submitted by  
Tom Bongers  
Wageningen University  
Wageningen, Netherlands

## Complete an online training:

The Plant Management Network has a new presentation for its Focus on Soybean webcast resource: **Seed Treatments for Nematodes of Soybean** by Dr. Loren Giesler, Professor and Extension Plant Pathologist at the University of Nebraska-Lincoln.

In the past 15 years, the soybean industry has seen a dramatic increase in the use of seed treatments in the United States. It is estimated that currently 50% - 70% of all soybean seeds planted in the U.S. are treated. "Seed Treatments for Nematodes of Soybean" (<http://www.plantmanagementnetwork.org/edcenter/seminars/Soybean/SeedTreatments/>) was developed to help users in the U.S. soybean production regions make decisions on the use of seed treatment products marketed for nematode management in soybean. This talk reviews the common seed treatment products for soybean nematode management and overviews their active ingredients and modes of action. By the end of this webcast, the user should know more about seed treatments for nematode management in soybean and have a better understanding of what to expect from these treatments.

This presentation is open access through January 31, 2013. Viewers can also opt to see a 5-minute executive summary version of the presentation as well; this summary is permanently open access courtesy of the United Soybean Board.

Submitted by  
Phil Bogdan  
Plant Management Network

## Mark your calendars!

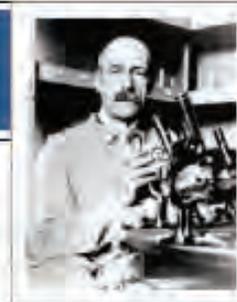
**The next annual  
meeting of the  
Society of  
Nematologists  
will be held  
July 14-17, 2013  
in  
Cleveland, OH.**

## THE NATHAN A. COBB NEMATODOLOGY FOUNDATION



Patricia Timper, Chair  
Cobb Foundation

As we are nearing the end of the calendar year, please consider donating to the Cobb Foundation. Your tax-deductible contribution will help the Foundation grow, which in turn will allow us to do more to support nematology. Here's how it works: donated money is invested in low risk investments (currently certificates of deposit - CDs). Interest earned on these investments is then used to advance the study and practice of nematology. At this point in time, we are primarily funding graduate student travel awards to nematology meetings. However, as our financial base increases, the Cobb Foundation will be able to fund special symposia and workshops, travel grants for early-career scientists, and other educational opportunities.



Online donations can be made through the Society of Nematologists website ([nematologists.org](http://nematologists.org)) under the "products" tab. Here is a direct link: <http://nematologists.org/products/>. The section for the Cobb Foundation is at the bottom of this link. Note that you can donate to the General Fund or one of several specific funds. A description of the funds can be found on the N.A. Cobb page on the SON website under the "About us" tab.

Donations can also be made by making a check (US\$) payable to the Cobb Foundation and mailing it to Dr. Richard Davis, Cobb Foundation Treasurer, 2136 Deer Run Cir., Tifton, GA 31793.

In 2012, we provided travel grants to six students to help defray the cost of attending a nematology meeting. Dana Blackburn from Brigham Young University received a grant to attend the Evolution of *Caenorhabditis* and Other Nematodes meeting in Cold Springs Harbor. Charline Alenda (INRA, France), Harit Ball (Ohio State), Tharshani Nishanthan (University of Vermont), and Danny Humphreys (Washington State University) received grants to attend the Annual SON Meeting in Savannah. Finally, Adler Dillman from the California Institute of Technology was selected as the John Webster Outstanding Student for 2012, which came with a \$700 travel award.



Adler Dillman  
Webster Outstanding Student



The Cobb Foundation is planning another Silent Auction at the 2013 Annual Meeting in Cleveland, Ohio. Please look around your office or home for books, artwork, or other items of nematological interest to donate for the auction. This was a very popular activity at the 50<sup>th</sup> Anniversary Meeting in Corvallis and raised a lot of money for the Foundation.

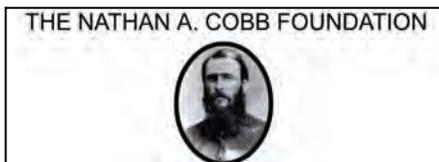
**Changes to the Bylaws.** Sometime early next year, you will be sent proposed changes to the Cobb Foundation Bylaws. The most significant change deals with how we invest our money. Currently, the bylaws allow the Board of Directors to utilize investment vehicles that pose no risk to the Foundation's principle. The Foundation funds are currently invested in CDs, which generate very small earnings because of low interest rates. Interest rates are extremely low and are expected to remain so for the next several years. Our proposed changes to the bylaws will allow the Board greater flexibility in how the Foundation's finances are invested. Low-risk vehicles will still be utilized, but hopefully ones that earn more interest than CDs.

## Call for Nominations: The John M. Webster Outstanding Student Award

The Nathan A. Cobb Nematology Foundation is pleased to call for nominations for The John M. Webster Outstanding Student Award for 2013. This award is to recognize a graduate student who has demonstrated outstanding accomplishments in his/her thesis research in Nematology as well as other skills necessary to be a well-rounded scholar.

Students in their final year of a Master's or Ph.D. degree shall be eligible for this award and shall be nominated by a mentor or peer. The nomination will include a letter from the nominator, and a one-page description of his/her research written by the student. The nomination letter should describe the student's educational background, grade-point average, contributions, and merit.

The recipient of the award will receive a plaque and will make a 30-minute oral presentation of their research in



either a symposium or regular session at the 52<sup>th</sup> Annual Meeting of the Society of Nematologists in Cleveland, Ohio (July 14-17, 2013). The presentation will be

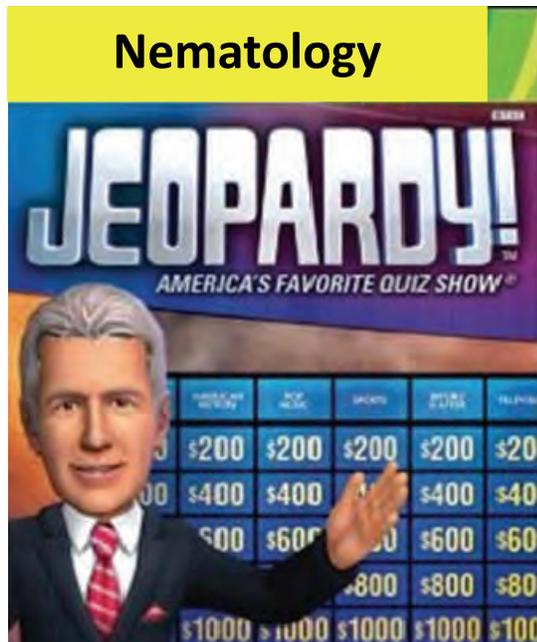
designated in the Program and Abstracts book as the *John Webster Outstanding Student Presentation*. The recipient may also present a different aspect of their research in the Student Paper or Poster Competition.

Please send nominations via e-mail to:

Dr. Koon-Hui Wang  
Vice Chair, N.A. Cobb Foundation  
[koonhui@hawaii.edu](mailto:koonhui@hawaii.edu)  
Phone no. 808-956-2455

**Deadline for receiving nominations is February 1, 2013.**

## Cobb Bowl Planned for Annual Meeting



The Society of Nematologists' Ecology Committee is organizing a Nematology Quiz Competition for the upcoming 2013 Society of Nematologists meeting in Ohio. The competition will be open to students in the society. The committee would like to solicit Nematology related quiz questions much like those in "Jeopardy" format. Any questions pertaining to nematode taxonomy, ecology, management, biological control, entomopathogenic nematodes, molecular biology, or related topics are welcome. We are also soliciting nematode images for the first round of the quiz (identification). Please feel free to send your questions, images and answers to [koonhui@hawaii.edu](mailto:koonhui@hawaii.edu), [cecilia.tomasel@colostate.edu](mailto:cecilia.tomasel@colostate.edu), or [quinterotonia@yahoo.com](mailto:quinterotonia@yahoo.com). Please encourage your students to participate in this event.

Submitted by  
Koon-Hui Wang  
University of Hawaii at Manoa  
Honolulu, Hawaii, USA

**"There are no miracles in agricultural production."  
- Norman Borlaug**

## Joint Meeting for Regional Projects W-2186 and S-1046

The 2012 W-2186 and S-1046 multi-state nematology research project meetings were held jointly in Biloxi, MS on November 1 and 2, 2012. Kathy and Gary Lawrence hosted the meetings. The members attending included Haddish Melakeberhan (MI), Russ Ingham (OR), Phil Roberts (CA), Tom Powers (NE), Brent Sipes (HI), Steve Thomas (NM), Kathy Lawrence (AL), Gary Lawrence (MS), Vincent Klink (MS), Saad Hafez (ID), Bob Robbins (AR), Senyu Chen (MN), David Thompson, (Administrative Advisor for W-2186, NM), Charlie Overstreet (LA), Ed McGawley (LA), Don Dickson (FL), Jim Starr (TX), Jon Eisenback (VA), Paula Agudelo (SC) and Ron

Lacewell (Administrative Advisor for S-1046; TX). Graduate student guests included Prachi Matsye (MS), Yan Li (MS), Randy Smith (MS) Deborah Xavier (LA), Nikki Xiang (AL), Drew Schrimsher (AL), David Bailey (AL). Cooperative reports on research projects were reviewed and new proposals organized. A gulf coast sailing excursion to tour the Gulf of Mexico was our afternoon event.

Submitted by  
Kathy Lawrence  
Auburn University  
Auburn, AL, USA



**W-2186 and S-1046 meeting participants enjoyed an afternoon excursion to the Gulf of Mexico.**

**In front and moving clockwise:**

**Steve Thomas (New Mexico), Russ Ingram (Oregon), Gary Lawrence (Mississippi), Kathy Lawrence (Alabama), Charlie Overstreet (Louisiana), Saad Hafez (Idaho), Phil Roberts (California), Dave Thomas (New Mexico), Senyu Chen (Minnesota), Jim Starr (Texas), Brent Sipes (Hawaii), Ed McGawley (Louisiana), Vince Klink (Mississippi), Paula Agudelo and her husband (South Carolina), Brenda (Louisiana), and Helen McGawley (Louisiana).**

## The Great 2012 Yearly Pilgrimage of NE-1040 (A Saga Deluxe©)

The call came from on high,  
From the guild Lord Lou-Ma,  
Sounding in his coastal fastness along the great sea,  
“Worm-serpent charmers must gather before the twelfth moon appears,  
As decreed by the great chiefs of bureaus on the river Pa-tow-mack;  
Weather is dicey in these northern realms, and we will trek to warmer land,  
And come together at the Tanasi outpost, in the territory of the Moonshine clan.”  
So it was decreed, so it would be done,  
And Ern-Be the local squire of worm-necromancy  
Began laying his plans to please the Lord Lou-Ma’s fancy.

Plans are mickle uncertain, once laid they are quickly undone,  
Gathering worm-serpent charmers being akin to teaching freshmen;  
Battle was coming to Tanasi in the tenth month ides,  
A hopeless fight against the red bully Tides;  
And Lord Lou-Ma’s schedule had but one window so the date was set,  
The end of the tenth month, a time Ern-Be predicted joyfully  
Would be sunny and free  
Of torrents and winds and storms and monsters named Sandy.

Squires of the great guild of NE-1040 thus prepared their expedition,  
And saved precious bullion for the outrageous registration;  
But other squires expected to be seen  
Could not reach Tanasi, their plates were picked clean;  
And some herded freshmen, and some were AWOL,  
And one was backed up to the tenure wall.  
The band was reduced to the brave and hardy,  
Then squire Geo-Ab announced he would be more than tardy;  
Flying machines were scarce as dragon’s teeth and he feared mainly  
Spending stuck days in Moonshine land, and he being a Yankee.

The weather seers had been false, Sandy-monster was on her way,  
But that did not stop the other squires from the pilgrimage that Sunday.  
Had-Me, defiant, pulled in from Mittenland first,  
Not a care in the world, “Let Sandy do her worst!”  
Jim-La was the second to arrive, his spirit poor,  
“My manse is teetering and Connecticut’s done for.”  
Sen-Che arrived next in a flying machine,  
And observed, “Moonshine Land’s not so cold,  
Where I come from it’s already snowed.”  
Super-squire Mittener Geo-Bi was the last to come on a flying machine hired,  
“I just flew in from Gridlockville, and boy my arms are tired.”

But anxiously squire Ern-Be scanned the horizon  
For the other squires still traveling by land;  
From his ridgetop aerie he pondered their fate,  
Would the monster pour rain on them, blow them astray,  
or cover them with sand?

The next dawn was forbidding, dark, cold, and rainy,  
But the assembled squires were relieved,  
Three more of their guild had arrived in Tanasi;  
Jo-Hal from Appleland in his horseless cart reached the inn,  
Pa-Gre and his bride down the northern route were the next to come in;  
Then late in the dark on the northeasterly trail  
Jim-Ko slid in through the night’s rain, fog and hail.

*(Continued on page 9)*

## The Saga (continued)

(On the next morn after a frugal buffet meal of bacon, sausage, eggs and biscuits)—

Squire Jim-La announced, "Let us lay on the work of the day,  
 "I have tidings from Lord Lou-Ma, who confided in me ere the start of today,  
 "Lord Lou-Ma said, 'It is good to be prompt with those reports,  
 Or the suits in Pa-tow-mack will think we're bad sports.'"
   
Mittener Geo-Bi agreed with Lord Lou-Ma, and the squires already knew,  
 That this would be said, for it was repeated every year anew.  
 But Geo-Bi stressed, "We have to do better,  
 "Prithee, I need those reports in an e-mail or letter."  
 So with good will, without significant retort,  
 The squires then consented to give their reports.

Humates were up for discussion at this meeting,  
 "A magic elixir!" squire Jo-Hal of Appleland kept repeating;  
 "Improves soil! Promotes brawny plants!  
 "This potion cures halitosis, and kills biting gnats!"  
 But alas, apples and grapevines were not benefitted  
 When humate around these fruits was retrofitted.

Squire Ern-Be illuminated root glyphs from magic X-rays,  
 Shining without light from a secret rock for root system imaging,  
 Akin to speculations on the Shroud of Turin  
 But not holy, rather more profane  
 In the traditional use (more like "common" or "plain"),  
 "We can see the evil fruits of reniform mating,  
 As hemispheres of eggs yielding evil offspring,  
 To infest cotton without magic powers for resisting."

Young sorceress and guest Hā-Lē spoke of wounds in the earth,  
 When miners collect black fire rock then move on,  
 Hiding their destruction with rocks and plants of no worth;  
 And her conjures of underworld worm-serpents and their restriction  
 To ravaged dark homes with no source of nutrition  
 From the twisted vegetation above their blasted dwellings,  
 Unless ruling wizards have imposed their will,  
 Commanding wholesome plants and land with good fill.

(After noontime feasting at inns nearby)—

Squire Had-Me of Mittenland then was the center of attention,  
 Destruction of soybean worm-serpents his main intention,  
 "They burrow and eat, root systems are festooned  
 With fat-grown serpents that know no limit  
 Unless the plant has magic powers within it  
 To deter the serpents from wreaking their worst  
 On that simple crop coaxed from the brown earth."

Squire Sen-Che of the North rose to his task,  
 "What manner of worm serpents do we have?" he rhetorically asked,  
 "In these soy plots – be they for good or for ill?  
 "I'll dump a formalin potion on them, and work with a will,  
 "To sample and count – mold-eaters, cannibals, germ-gobblers, et al.,  
 "'Til we find the antidote to SCN thrall."

(Continued on page 10)

## The Saga (continued)

The meeting hall grew still as great squire Geo-Bi rose,  
 His talks were legendary, delivered in crisp precise northeastern prose;  
 He brandished codices for all with secret conjures for illumination,  
 Inscribed in bold runes with the titles "Potato Nematodes"  
 And "Potato Soil Fumigation."  
 Geo-Bi then painted a picture of lament and tribulation  
 In the mystical land of the Kazakh nation,  
 Where worm-serpents overwhelm the remains of the old plans  
 Of the dissolved Eastern realm to collectively farm those lands.

Worm-serpent subjugation is a worthy goal for nema-squires everywhere,  
 With the use of elixirs, compounds, and fell substances to slow their rampage  
 Through the fields and free-holdings of lords and yeomen at every crop stage;  
 As an example Jim-La showed his conjuring with Biochar  
 To destroy baby worm-serpents inside the eggshell  
 When compared to nightshade juice and to nothing, as well...  
 But not enough! Some plant roots have magic, verily,  
 Hairy vetch, buckwheat, millet, and oats also  
 Are almost as good as keeping land fallow.

Squire Pa-Gre commenced his soliloquy on worm-serpents  
 In ruined villages and the signs and portents  
 They reveal for cropping by needy villagers  
 Striving for healthful fruits from the soil,  
 And becoming independent, proud yeoman tillagers.

Horseless carts need magic burn fuel elixir for motive power,  
 So Jim-Ko cropped switchgrass to assist  
 In getting burn fuel by even more magical processing twists;  
 And he showed by schemes and charts that  
 Spiral worm-serpent palates are not especially pleased  
 To feed on this manner of once-hated weeds.

The squires had spoken,  
 The great sun orb now low on the horizon;  
 But the day verily was not done, squires were still detained  
 In a pleasant way, a reception at the magic X-ray center  
 To drink wine, eat meatballs, would space for dinner remain?  
 But the hardy band adjourned to the Sign of the Carnivore,  
 And consumed enough to reach critical mass once more.

This humble scribe is happy to say  
 That all the squires were able to leave safely the next day,  
 Except for Pa-Gre and his enchanting bride in their horseless cart,  
 Who, troubled by the Sandy Monster, planned an early start;  
 Jim-La was stranded but Jo-Hal gave him a ride  
 To Appleland there to wait out Sandy's rain, wind and high tides.  
 Jim-Ko slipped and skidded through heavy snows and overcast  
 As he approached his mountain home, but made it at last.  
 The other squires arrived home without a hitch,  
 And dreamed of Wineland next year, the wait 11 months long,  
 After all, with Geo-Ab in charge what could possibly go wrong?

Submitted by  
 Ernest C. Bernard  
 University of Tennessee  
 Knoxville, TN, USA

# Position Announcements

## **USDA Postdoctoral Position (2 years) - Pathology and biology of *Globodera ellingtonae***

A postdoctoral position is available in Inga Zasada's lab in the USDA ARS Horticultural Crops Research Laboratory, Corvallis, OR. The successful candidate will conduct original research on *Globodera ellingtonae*, a new species found in Oregon. The project will explore the biology and pathogenicity of this plant-parasitic nematode. The successful candidate will conduct laboratory, greenhouse, and field research on *G. ellingtonae* exploring topics such as: host range, hatching factors, non-chemical control methods, and/or comparative genomics. Recent related publications about *G. ellingtonae* include: *Journal of Nematology*, 2012, 44:40-57; *Phytopathology*, 2011, 101:480-491.

### **Requirements:**

- Experience in working with nematodes and/or plant pathogens; background in plant pathology and/or nematology is required
- Experience in integrating molecular and biochemical approaches to answer applied research questions

- Ph.D. (required before starting the position) and demonstrated publication record.

The project is in collaboration with Russ Ingham, Department of Botany and Plant Pathology at Oregon State University, Corvallis, OR.

**Salary:** USDA scale starting at GS-11 (starting at \$57,408).

**Start date:** January 1, 2013 or until filled.

**To Apply:** Send an e-mail including a statement of interest, curriculum vitae, and names of 3 references to

[inga.zasada@ars.usda.gov](mailto:inga.zasada@ars.usda.gov).

**The Federal Government gives strong priority to hiring United States Citizens. For information regarding employment of foreign nationals please**

see: <http://www.afm.ars.usda.gov/hrd/EmployForeignNationals/index.htm>

## **Postdoctoral Position in Nematology, University of Florida**

An opportunity for a post-doctoral research position is being offered at the University of Florida (UF), Entomology and Nematology Department in Gainesville, FL. The position is in the laboratory of Dr. Tesfamariam Mengistu.

Specific duties and responsibilities of the position will include:

- Development of single-spore infections of *Pasteuria penetrans* in *Meloidogyne* spp.
- Perform genomic sequence analysis of the *Pasteuria penetrans* clonal lines.
- Development of new molecular methods to identify major root-knot nematode species occurring in Florida.
- Supervise Nematode Assay laboratory activities.

**Qualifications:** Candidates with a Ph.D. in Nematology, with expertise in molecular methods and biological control. Experience should be documented by publication record. Candidate must have excellent written and oral communication skills.

**Enquiries:** Interested applicants may contact

Dr. Tesfamariam Mengistu ([tmekete@ufl.edu](mailto:tmekete@ufl.edu)) for more information.

**To apply:** Please send an email to [tmekete@ufl.edu](mailto:tmekete@ufl.edu) containing: (1) a current CV including publication list (2) a statement of research experience and interests (3) the contact information (including email address) of three individuals familiar with your work and abilities that may be asked for letters of recommendation.

The position is currently funded for one year and available immediately.

Application review will start immediately and continue until the position is filled.

The University of Florida is an equal opportunity institution.

## **R&D Scientist at Syngenta, Vero Beach, FL**

Syngenta is hiring a nematologist at their Vero Beach Research Center. The successful applicant will be part of a highly motivated research group and will initiate and conduct research and development projects including lab and field studies to support the Nematode Control Biological R&D program. Additional duties include providing technical support for registered products in support of sales and

marketing efforts and acting as field project coordinator for assigned projects.

The full description is available at: [http://jobs.syngenta.com/job/Vero-Beach-R%26D-Scientist-1%2c%2c-or-3-Job-FL-32960/2213142/?from=email&refid=20456310&utm\\_source=J2WEmail&source=2&eid=267-201210290834-43505235&locale=en\\_US](http://jobs.syngenta.com/job/Vero-Beach-R%26D-Scientist-1%2c%2c-or-3-Job-FL-32960/2213142/?from=email&refid=20456310&utm_source=J2WEmail&source=2&eid=267-201210290834-43505235&locale=en_US)

## Position Announcements (continued)

### Two Assistant Professor Positions, Cornell University

The **Department of Entomology** invites applications for a tenure-track, academic year appointment as **Assistant Professor of Soil Arthropod Ecology** (60% research, 40% extension). The successful candidate will develop an innovative research program on the ecology and management of soil arthropods that will address both fundamental questions about soil arthropod ecology and strategies to mitigate pest problems of economic significance caused by soil arthropods in turfgrass and related industries in New York. The successful candidate also will develop and execute an innovative extension program focused primarily on the management of arthropod pests in turfgrass and contribute to Cornell's interdisciplinary turfgrass extension program.

The candidate must have a Ph.D. and demonstrate outstanding potential and a record of research achievement in soil arthropod ecology or a closely associated discipline. The candidate is expected to collaborate with related programs at Cornell University and contribute to our Land Grant Mission. The candidate is expected to mentor graduate students, publish research findings in peer-reviewed journals and secure strong and stable extramural funding from a wide array of sources including federal, state and industry groups.

Please submit (1) letter of application, (2) current curriculum vitae, (3) statement of research interests and professional goals, and (4) names and contact information of three individuals who have been asked to provide

letters of reference. Applicants also should arrange for letters of reference to be received prior to the deadline for consideration. All submissions and letters of reference should be sent to Dr. Brian Nault, Search Committee Chair, c/o Nancy Reissig, njs2@cornell.edu. Electronic applications are preferred as a single PDF file; any documents available only as hard copy should be sent to Nancy Reissig, Soil Arthropod Ecology Search Committee, Cornell University, Department of Entomology, Barton Laboratory, 630 W. North Street, Geneva, NY 14456.

Review of applications will begin on December 7, 2012; applications submitted after this date may be considered until a suitable candidate has been identified.

More information about this position and the Department of Entomology may be found at: <http://entomology.cornell.edu/jobs/>.

A second faculty opening is available. The **Department of Plant Pathology and Plant-Microbe Biology** invites applications for an **Assistant Professor of Soil Microbiology/Vegetable Pathology** at the New York State Agricultural Experiment Station; more information about that position can be found via Academic Jobs Online at <https://academicjobsonline.org/ajo/jobs/2247>.

Cornell University is an affirmative action, equal opportunity educator and employer.

## In Memoriam

### Patrick Haydock

Dr. Patrick Haydock passed away on August 11, 2012, at the Severn Hospice. Patrick was born in 1964 and brought up in Harpenden, where his father was headmaster at a local school. With an interest in agriculture, Pat attended Bangor University and obtained a bachelor's degree in agriculture before moving to Rothamsted to complete studies for a Ph.D. degree (in collaboration with the Universities of Cambridge and Luton), which was awarded in 1990. Following a brief period as a post-doctoral researcher at Rothamsted, he took up a lecturing role at Harper Adams in 1990.

Pat was an outstanding lecturer and researcher and had established a leading international reputation for nematode research and was much sought after as an expert in his field. He published widely, supervised many post graduate students and was successful in securing research funding from a wide range of sources. Pat made

seminal contributions to our understanding of potato cyst nematodes (PCN) and was responsible for establishing a centre of excellence in this area at Harper. This was recognized by promoting him to the position of Reader in Nematology.

Pat was also an active member of several scientific societies and in particular made significant contributions to the Association of Applied Biologists Plant Nematology sub-group. He initiated and organized an international symposium series on PCN management, which were held at Harper Adams in 2000, 2005, and 2010.

Pat will be greatly missed by his colleagues, students and by those with whom he interacted in the wider scientific community. Our thoughts are with his wife Bidy and daughter Becky.

(from <http://www.harper-adams.ac.uk/news/201715/obituary-dr-pat-haydock-19642012>)

# Word Search:

## Phytonematode Anatomy and Morphology

Twenty terms describing key morphological and anatomical features of plant parasitic nematodes are hidden in the box below. Can you find them all?

- AMPHID
- AREOLATED
- BURSA
- CLOACA
- CUTICLE
- EGG
- ESOPHAGUS
- EXCRETORY PORE
- GUBERNACULUM
- INTESTINE
- LATERAL FIELD
- LIPS
- METACORPUS
- NERVE RING
- PHASMID
- PROCORPUS
- SPICULE
- STYLET
- TAIL
- VULVA

C	A	O	M	E	A	S	P	E	P	M	E	T	L	I	E	N	C	I	R
G	N	I	N	Y	R	M	X	H	L	S	I	S	N	D	G	R	E	B	O
E	R	N	O	L	E	C	P	N	E	C	T	D	I	M	S	A	H	P	E
L	B	T	S	R	O	G	L	H	L	Y	I	B	E	T	G	O	V	L	H
D	L	E	I	F	L	A	R	E	T	A	L	T	Y	B	R	A	U	R	A
O	E	S	P	R	A	M	C	M	E	O	A	W	U	T	U	C	L	A	T
M	E	T	G	N	T	A	I	A	G	C	N	B	E	C	I	A	T	M	L
R	O	I	H	U	E	S	U	G	O	A	S	L	S	P	S	F	R	H	R
I	R	N	E	R	D	I	N	R	E	L	A	P	S	R	N	I	A	S	U
A	N	E	D	Y	B	M	P	H	S	D	C	F	I	O	M	E	G	A	B
E	L	D	A	V	L	U	V	E	C	N	L	A	T	C	U	L	N	F	L
M	S	O	N	Y	S	O	A	M	P	H	I	D	M	O	V	L	I	A	T
N	P	O	T	E	S	L	P	O	H	H	V	A	C	R	I	O	R	D	C
A	I	C	P	R	E	X	C	R	E	T	O	R	Y	P	O	R	E	M	A
S	L	X	E	H	D	R	I	S	R	G	M	E	H	U	C	I	V	S	L
M	U	L	U	C	A	N	R	E	B	U	G	R	A	S	B	O	R	E	I
A	O	E	L	A	R	G	E	C	O	B	V	C	O	R	P	U	E	P	C
E	H	I	A	L	G	A	U	N	S	M	A	X	F	D	B	I	N	U	S
S	T	F	T	O	E	V	I	S	T	Y	L	E	T	H	S	A	N	I	C
N	I	Y	R	B	S	O	N	E	L	A	P	D	O	L	C	I	L	R	O

### Editor's Corner

**The Nematology Newsletter is what you make it!**

Please keep those contributions coming! The deadline for submissions for the March 2013 issue is February 28, 2013. Submissions received after that deadline will be included in the June 2013 issue.

If possible, prepare your articles using Word and send any images as jpg files. Documents in pdf format lose

some of their definition and clarity when inserted into the newsletter.

I will do my best to acknowledge all submissions that I receive, so if you send something and do not hear back from me, please do follow up to be sure that I received it. Please send your submissions to:

[nemanews@gmail.com](mailto:nemanews@gmail.com).