



Nematology Newsletter

An Official Publication of the Society of Nematologists

From the President

June 2021 Vol. 67, Issue 2

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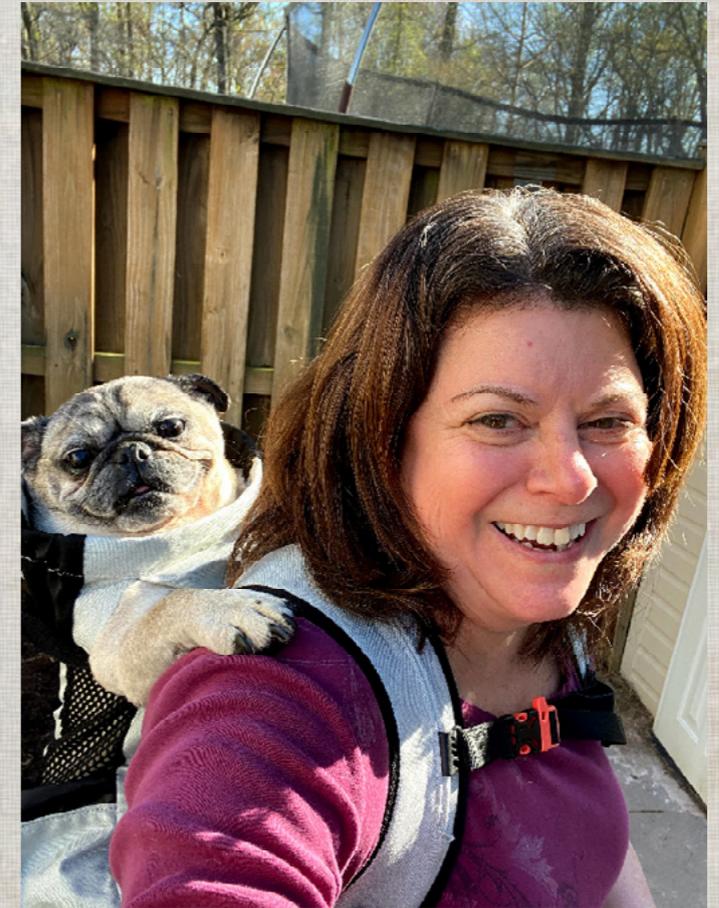
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Greetings, worm-herders!

The annual meeting in Gulf Shores, Alabama is only a few months away, so I hope you all have your registration and abstracts taken care of. The uncertainty of travel at various institutions has made meeting planning extra challenging. I appreciate all that Kathy Lawrence, Pat Donald, and Billy Crow have been doing on the program. A virtual poster option is available for those who may not be able to make it in person. I have a new appreciation for the stability of our long-range meeting plans we've been able to take for granted in the past. As has been said before, the functioning of the Society (including publication of the Journal) depends on revenue obtained from our annual meetings. We had set our annual meeting to be held in Moab, UT in 2022 and in Anchorage, AK in 2023. Given that ICN has shifted to Spring of 2022 and that we already lost income in 2020, there may need to be further adjustments to our meeting schedule in order to maintain the financial stability of SON. Stay tuned for future announcements on changes in dates and venues.



The SON and Cobb Foundation elections are upon us! If you have not already done so, please log in to the website and cast your ballots. I would like to thank those who have agreed to stand for election: Cynthia Gleason for secretary, Inga Zasada for Vice President of SON and to Guiping Yan for Cobb Treasurer and the two women up for Cobb Secretary, Dorota Porazinska and Marisol Quintanilla. There is no better way to gain a

bird's-eye view of all SON does to advance the science of nematology than to serve on a committee, the journal, or the executive board. It is also how change happens, so if you want to influence the future direction of our society, I strongly encourage your participation. Committee service is a great place to start. If you have any questions about particular roles or committees, feel free to reach out.

We have had a number of retirements recently, and with that comes Emeritus membership status. We've reached out to a number of recent retirees, but if somehow we missed you, please let us know if you would like to be considered for Emeritus membership. You'll get free SON membership and reduced registration at our annual conference. Even if you don't intend to come to meetings, your Emeritus status still counts towards our total membership. This becomes important for us in determining Fellow and Honorary member honors, which are based on total membership numbers. We would like to be able to recognize some highly deserving folks, but have been unable to do so due to not having enough members to meet the thresholds proscribed in the Constitution. Please contact me or Jacki Beacham in the Business Office and we can take care of those requests.

At last year's electronic business meeting, I proposed some changes to the Constitution that would create some temporal flexibility in the process of changing the Constitution (that sounds circular, doesn't it?). While we could not vote on it at that time (because of the existing timeline), that announcement served as a first proposal of the change. It will be officially subject to a voice vote approval at this year's business meeting, after which there will be publication in NNL and by email, a time for feedback and comment, and then a formal vote to confirm the change in language. Considering that we communicate and vote electronically and no longer have a paper journal or routine mailings going out to members, this change serves as a refresh on process that will facilitate other changes that will better reflect how the Society functions. If you have questions or feedback on that issue, please let me know.

Respectfully submitted,

Andrea Skantar

SON President

John M. Webster Outstanding Student Award

Dear SON Members,

The Nathan A. Cobb Foundation is pleased to request nominations for The John M. Webster Outstanding Student Award for 2021. 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; a brief CV (e.g., 2 pages) should also be included.

The recipient of the award will receive a plaque and will make a 30-minute oral presentation of their research at the 60th annual meeting of the Society of Nematologists in September 2021. 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.

The deadline for receiving nominations is midnight (Eastern Standard Time) on **June 30, 2021**.

Please send nominations via e-mail to benjamin.mimee@canada.ca

Thank you!

SON Business Office

[John M. webster award poster.png](#)



Society of Nematologists Executive Board Meeting

May 17, 2021

Minutes

Present: A. Skantar, K. Lawrence, A. Elling, T. Faske, A. Gorny, C. Khanal, T. Mengistu, N. Schroeder, B. Sipes, R. Sommer, S. Stetina, J. Beacham

Excused: G. Phillips

Guest: W. Crow, P. Donald

The meeting was called to order at 8:01 AM HST.

The agenda was approved without objection.

The minutes from the April 19, 2021 meeting were approved without objection.

Old Business

Emeritus requests: Don Dickson John Halbrecht, Terry Nibblack, and Tom Welacky requested emeritus status. All nominations were accepted by acclamation. A page for requesting emeritus status has been added to the website.

Elections: One nominee for Secretary and one for Vice President were received. A nonmember was also nominated. Biographies from candidates have been requested. The election will be conducted via the website from June 15-30, 2012.

2021 Annual Meeting: A few more registrations have been made. The email reminders are soliciting responses. Covid policy for the meeting is a moving target and should be updated as guidelines evolve. Our Covid policy must be clear on registration page. A check box has been added so registrants acknowledge any restrictions. The virtual poster still being developed by B. Crow.

Annual Business Meeting: President may not be physically present at the meeting. Virtual and HOT options were discussed, along with costs and challenges to voting.

New Business

AIBS Climate Change Letter: B. Sipes moved to endorse the letter. N. Schroeder seconded the motion. The motion passed with 4 yeas and 3 abstentions (A. Skantar, S. Stetina, and A. Elling).

Capacity Grant: Lesley Schumacher has content on standard methodologies for nematology to be posted on the website.

Journal of Nematology: Wiley representative contacted EIC to discuss open access. A meeting has been scheduled. We are with Exeley through 2022. Submission of articles has declined but expected to return to pre-pandemic levels.

Round Robin

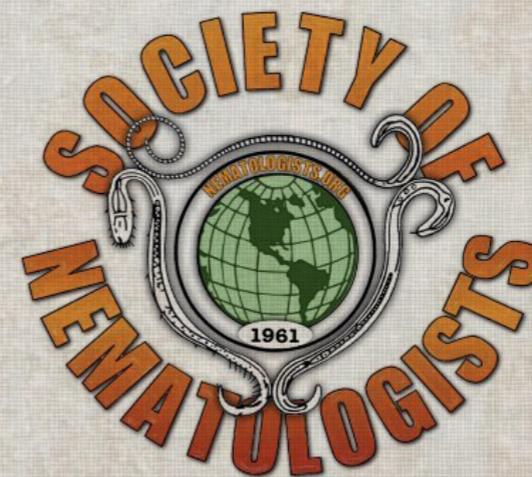
Annual Meeting 2022: B. Sipes moved and R. Sommer seconded to have Vice President A. Elling move forward to securing a venue and planning the program for 2022. The motion passed.

With business completed, a motion to adjourn was made and seconded. The meeting was adjourned at 10:06 AM HST.

Respectfully submitted,

Brent Sipes

Secretary



Introducing Dr. John “Moose” Henderson

Written and submitted by Gary Phillips



On the behalf of the Society of Nematology (SON), I would like to introduce you to Dr. John “Moose” Henderson. Although Moose (he dislikes formal titles and prefers to be called by his nickname) is not a nematologist, I wanted to highlight him in this quarters newsletter (NNL). Last year, Moose was gracious enough to donate both time, money and his creative cloud licenses to SON in order to ensure that the NNL was published using InDe-

sign software, to which we are very grateful.

Moose earned his B.Sc. degree in environmental geology from the University of Mississippi in 1983. Upon graduation, he worked in industry as a geologist for eight years. Concurrently, Moose studied under Dr. Walter C. McCrone, the father of modern microscopy, in the use of brightfield, polarized light, phase and differential contrast and electron microscopy from the McCrone Research Institute in Chicago, Illinois. His microscopy skills were used when he founded his own business in which he analyzed asbestos and other hazardous materials for 27 years.

Although Moose was a dedicated businessman, he also raised a family of five daughters. In addition to raising a family, he found time to house, feed, educate and provide financial assistance to numerous homeless people in Saint Petersburg, Florida. As time passed, he was always lured back to his true passion of wildlife photography and education. After raising a family, putting his daughters through school and running a successful business for 27 years, he took the leap into the unknown and began a new life as a wildlife photographer. Moose made the fateful decision to give up all of his worldly possessions, his business, the money, vehicles, his beloved sailboat, and all his other

tangible items to pursue a goal of becoming a professional wildlife photographer. If you have ever had the pleasure to meet Moose, you would know that he does not do anything the easy way.

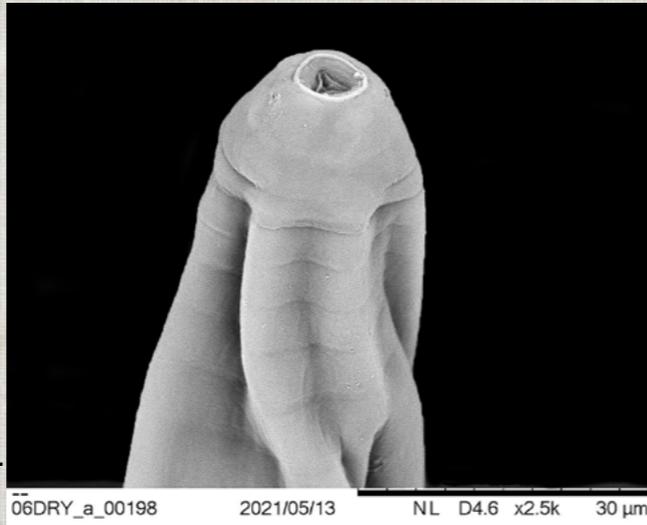
His first wildlife expedition was not in the lush tropics of Hawaii, or the snowcapped peaks of the Rockies, or even the Serengeti of Africa, but instead, he put his skills to the test and decided to move to Siberia. He spent two years in Siberia, part of the time in a tent during the winter, other times in an unheated cabin or a small-heated room. Here, he photographed birds, various small mammals, foxes, Amur tigers, insects and anything else that captured his keen eye. He also documented indigenous plants and studied the behavior of the Siberian wildlife.

During his two-year stay in Siberia, he was detained as a spy, questioned by the military police, fell through the ice and nearly froze to death, and came face to face with an Amur tiger that leaped over him while he was buried in a snow cave. Needless to say, he was not a spy, he was arrested because the Russians thought he was taking photos of



an armament factory, whereas in reality, he was taking photos of birds in a park across an AK-47 factory; he was “questioned”, “debriefed” and, yes, “body searched” by the police as a potential foreign threat. One of his encounters with near death resulted from Moose fighting a

wildfire in a rural area of Siberia, and upon trekking home (alone) he crossed a lake that he thought was frozen – he found out very quickly that it was not. He fell through the ice, pulled himself out, managed to hike for about a mile or so, then succumbed to hypothermia. Hours later, villagers found his nearly frozen body, warmed him up, transported him to a bed in a heated room and was “brought back to life” a few days later. Going to a hospital was not an option because he was an American in very rural Siberia. His near death with an Amur tiger happened when he dug a snow cave, waited six days to capture its image, then by sheer luck, the tiger saw a deer running behind his snow cave and leaped over the cave as he recorded numerous images. When I asked Moose if he was scared, he simply stated, “I had to change my diaper after the tiger encounter.”



Upon returning to the United States, Moose decided that he wanted to better understand and help the animals he had been photographing. He began studying for his Master’s and PhD degrees. At the young age of 55,



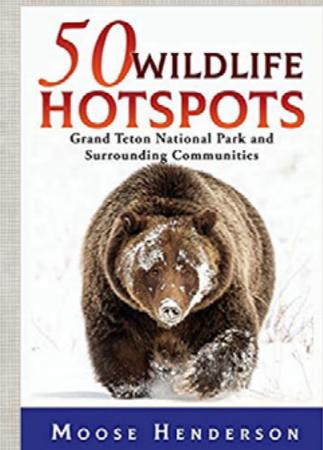
Moose jumped on a bus in Saint Petersburg, Florida and arrived at the doorstep of the University of Nebraska to pursue his Master’s degree in

Biology, with an emphasis on Moose Ecology. As anticipated, he was at the top of his class and graduated with honors. Soon thereafter, Moose was accepted into a very coveted PhD program focusing on moose ecology at Michigan Technical University. Because his degree was without a formal fellowship or stipend, he lived in a van for few years while he finished his degree. While conducting his research, he travelled to the Grand Tetons and Yellowstone National Parks and documented the dietary intake of moose through fecal analysis using polarized light microscopy. Moose’s love for animals does not stop with birds and mammals. He is devoted to helping just about anybody that needs help with photography and animal behavior. He has graciously assisted in our research on multiple occasions, most recently editing both SEM and DIC images of various new nematode species.

After earning his PhD, Moose moved to northwest Wyoming where he lives totally off-grid, in a tiny house that he built alone. He does not have electricity, running water, a traditional “bathroom”, a TV, a radio, or any of the common “perks” that we all enjoy. He grows some of his own food, lives alone, hauls in his water from a town that is several miles away, and heats his tiny house with wood that he gathers and splits himself.

Moose is a prolific writer and has published four books on moose browse (microhistology), 50 wildlife hotspots in the Grand Tetons, 50 wildlife hotspots in Florida (anticipated release in July 2021), 50 Yellowstone wildlife hotspots (in preparation) and other wildlife publications. He also has a YouTube channel devoted to wildlife photography, animals, tiny houses and off-grid living: <https://www.youtube.com/channel/UC4-AjMHkqTzjOJ0UVANvfw>.

Eight Essential Accessories for Wildlife Photography



Lei Zhang Lab Seeks Graduate Student for 2022

Graduate Research Assistantship

The Lei Zhang lab (<https://ag.purdue.edu/btny/Pages/Profile.aspx?strAlias=leizhang&intDirDeptID=10>) is seeking highly motivated applicants for graduate study at PhD level for spring of 2022. The research assistantship of a PhD student provides tuition waiver and stipend of \$24,520/year. Students with molecular biology background are encouraged to apply. English proficiency test (TOEFL or IELTS) is required for non-native English-speaking international applicants.



Plant-parasitic nematodes are microscopic soil-borne roundworms, they infect and damage plantroots causing annual crop losses valued at \$80-\$118 billion worldwide. The Zhang lab is aimed to enhance understanding of plant-nematode interactions and plant resistance to nematodes at molecular, organismal and population levels using a diverse array of approaches. Research results have been published on prestigious journals, including *Nature Plants*, *PLOS Pathogens*, *Molecular Plant Pathology*, *Plant Disease*.

Prior research experience in plant-parasitic nematodes is NOT required for application. The successful applicants will have opportunities to be trained and work on basic research to study functions of virulent effector proteins secreted by plant-parasitic nematodes using protein-protein interactions, next-generation sequencing (NGS) and gene editing techniques; or applied project to develop novel bio-control agents against nematodes.

How to apply: Interested students are asked to e-mail directly to Dr. Lei Zhang (leizhang@purdue.edu) the following documents **no later than June 30, 2021**: resume and transcripts. The subject of the email should be “**Research assistantship Spring 2022**”.

The College of Agriculture at Purdue University is one of the world’s leading colleges of agricultural, food, life, and natural resource sciences and ranked sixth in the US.



Research Entomologist The USDA-ARS Southeastern Fruit and Tree Nut Research Unit in Byron, GA is seeking a postdoctoral position, Research Entomologist GS11, salary commensurate with experience. The research assignment is to develop microbial control methods to control flatheaded borers and other insect pests of pecan; the emphasis will be on improving the use of entomopathogenic nematodes. Additionally, the incumbent will study the impact of pecan management practices on entomopathogen populations (e.g., entomopathogenic fungi and nematodes). The incumbent will conduct independent and cooperative research within these focus areas. A Ph.D. in entomology, nematology, microbiology, or a related field of biology is required. Citizenship requirements may apply. If you are interested in obtaining this position please submit a cover letter and your CV along with the names and contact information of three reference to David Shapiro-Ilan, (Research Leader, USDA-ARS Byron, GA) at David.Shapiro@usda.gov. For more information you can contact Dr. Shapiro-Ilan via email or phone (478-262-1670). The position is slated to begin October 1, 2021 (but the date is negotiable). Applications will be reviewed as they arrive until June 30, 2021. USDA-ARS is an Equal Opportunity Provider and Employer.

RESEARCH SPECIALIST/ASSOCIATE POSITION DESCRIPTION



Position Title: Research Specialist/Research Associate

Salary: \$49,000 minimum, depending on experience

Benefits: Benefited – includes retirement plan and full coverage for family health insurance

Position Description:

The Department of Plant Pathology at North Dakota State University welcomes applications for a Research Associate position. The successful applicant will: 1) develop/optimize molecular assays to detect and quantify plant-parasitic nematodes and viruliferous nematode populations in fields, and use the assays for plant disease risk assessment, 2) sequence and analyze genome and transcriptome of important nematodes, and 3) identify genes/QTL for resistance to the nematodes of importance.

Duties will also include: operating and maintaining equipment, maintaining laboratory supplies and biological resources, tabulating and analyzing data, preparing summaries of results and manuscripts, and presenting research results in meetings.

Other duties will include: supervising and training graduate students and temporary workers and interacting with personnel from other departments and institutions to promoting research collaborations. The appointment is for three years with extension possible depending on satisfactory

performance and funding.

Minimum Qualifications:

PhD/Master in Molecular Biology, Nematology, Plant Pathology, Plant Sciences or a related field earned before the start date; research experience in molecular biology; experience working with microorganisms or plants; ability to communicate effectively in English; ability to work independently and as a member of a team.

Preferred Qualifications:

Experience in developing molecular procedures for detection of plant pathogens, acquisition and annotation of genome or transcriptome, identification of plant resistance or nematode parasitism genes, and whole-genome wide association mapping; experience with bioinformatics analysis and molecular techniques such as DNA and RNA extraction, gene cloning and sequence analysis, primer and probe design, and gene functional analysis; experience with laboratory, greenhouse and field research; and good interpersonal skills.

Application:

Application materials will include a letter describing how minimum and preferred qualifications are met, CV, names and contact information for three references, and copy of transcript from

PhD/Master program. Applicants must submit their application online at: <https://jobs.ndsu.edu>. Screening date will begin 5/31/2021.

Inquiries should be directed to Dr. Guiping Yan, Department of Plant Pathology, North Dakota State University, Fargo, ND 58108, phone (701-231-7069) and email (guiping.yan@ndsu.edu).

60th Annual SON Conference

When: 12 Sep 2021, CDT

Where: The Lodge at Gulf State Park, Gulf Shores, Alabama

EVENT DETAILS:

SON is planning an in-person meeting at Gulf Shores State Park in Gulf Shores, Alabama Sept. 12-15, 2021 ---- but we do have a backup plan for a virtual meeting if it becomes necessary.

One way or another we will have an SON meeting Sept 12-15, 2021.

Registration and abstract submission will open in March 2021. Hope to see you at the beach in September!

The Gulf State Park and Auburn University invite you to attend the 60th annual meeting of the Society of Nematologists from September 12 - 15, 2021. The Lodge at Gulf State Park, A Hilton Hotel, is a unique destination on the Alabama Gulf Coast where nature is at your doorstep. It is located inside the naturally beautiful 6,150-acre Gulf State Park. This unique destination stands out from other Gulf Coast destinations because of its size and the diversity of its preserved ecosystems. The park is part of the National Geographic Unique Lodges of the World (<https://www.nationalgeographiclodges.com/lodges/map-view/>) and the Jean-Michel Cousteau Learning campus (<https://watershed.pro/portfolio/learning-campus-gulf-state-park/>). Meeting rooms, restaurants, and hotel rooms are linked with covered walkways. Open air space is optimized.



Hotel Reservations

The Lodge at the Gulf State Park will serve as the meeting site and

primary hotel accommodations for the 60th annual SON meeting (<https://www.gulfshores.com/lodging/resorts/the-lodge-at-gulf-state-park/>). Rooms are available through the web site Sunday Sept. 12, 2021 through Thursday Sept. 16, 2021. Please use the Group code: SON.

Park View rate is \$169.00/night

Gulf View rate at \$189.00/night

Guests wishing to reserve their rooms by phone or extend their stay should reach out to the Lodge Reservations at 800-618-4350. Remember Group code SON. Rooms can also be reserved online at <http://group.hilton.com/societyofnematologists> however; extended dates are not available via the booking link.

Travel to/from the Meeting Site

The Pensacola International Airport located in Pensacola, Florida is 37 miles from the park. (<https://www.pensacola-airport.com/>) American, Delta, Southwest and Frontier are some of the airlines that fly in to this airport.

Rental cars and Uber offer transport to the park.

Parking in the park is \$5.00 a day and bicycles are available at no additional cost.

Nature Tours

Our meeting site is located inside the naturally beautiful 6,150-acre Gulf State Park. This unique destination stands out from other Gulf Coast destinations because of its size and the diversity of its preserved ecosystems. The park is part of the National Geographic Unique Lodges of the World and so we have made time in the meeting for an assortment of guided Nature Tours for you to choose from, if you are interested and for an additional fee. A summary of the tours available can be found [here](#).



Agenda

Your meeting registration includes access to all scientific sessions, the opening reception, the wine and cheese poster session, closing reception and awards banquet dinner. You will also be provided with morning and afternoon beverage service, snacks and lunches.

A link to the abstract submission form will be emailed to you once your registration is successfully completed. There is a \$50 abstract fee for each abstract submitted in order to cover publication costs in the Journal of Nematology.

The Meeting schedule at a glance:

- Sunday evening Welcome Reception
- Monday morning Plenary Sessions I & II
- Monday afternoon Graduate Student Paper Competition
- Monday evening Star Gazing at the Pier
- Tuesday Paper sessions and Symposia
- Tuesday evening Wine and Cheese Poster Session
- Wednesday morning Nature Tours
- Wed. afternoon Capacity Building grants & Committee meetings
- Wednesday evening Closing Banquet

Announcement

Be on the lookout for the “call for Nominations” for the Nathan A. Cobb Secretary and Treasurer in mid-April. These offices are 3-yr terms starting at the conclusion of the annual SON business meeting.

SON Program Highlights

Sunday, September 12, 2021		
Executive Board Meeting	1:00 pm – 5:00 pm Noon	Executive Boardroom Cypress
Meeting Registration	3:00 pm – 7:00 pm	The Burrow
Industry Display Setup	1:00 pm – 5:00 pm	
Committee Meetings – Finance, Honors and Awards, Meeting Site Selection, Long-Range Planning, Membership	5:00 – 6:30 pm	
Welcome Reception	6:00 – 8:00 pm	Gulfview Ballroom I
Monday, September 13, 2021		
BREAKFAST (on your own)		
Meeting Registration	8:00 am – 5:00 pm	The Burrow
Industry Display Setup	8:00 am – 5:00 pm	Atrium area
Corteva Breakfast – Sponsored by Corteva Agriscience	7:00 - 8:00 am	Gulfview Ballroom III & IV
Plenary Session – Welcome to Alabama	8:00 – 8:15 am	Gulfview Ballroom III & IV
Plenary Session – Naturalist Kelly Reetz	8:15 – 8:45 am	Gulfview Ballroom III & IV
Plenary Session – Words of Wisdom panel	8:45 – 9:30 am	Gulfview Ballroom III & IV
MORNING COFFEE BREAK (provided)	9:30 – 10:00 am	Ballroom Foyer III & IV

Best Student Paper Competition (Traditional)	10:00 – Noon	Gulfview Ballroom III & IV
LUNCH (provided)	Noon – 1:00 pm	Gulfview Ballroom II
JON Editorial Board meeting	Noon – 1:00 pm	Cypress
Best Student Paper Competition (continued)	1:00 – 2:00 pm	Gulfview Ballroom III
3-Minute Thesis Student Competition	2:00 – 3:00 pm	Gulfview Ballroom III
AFTERNOON COFFEE BREAK (provided)	3:00 – 3:30 pm	Gulfview Ballroom III & IV
Contributed paper session - Taxonomy	3:30 – 5:00 pm	Gulfview Ballroom III
Contributed Paper Session - Industry Updates	3:30 – 5:00 pm	Gulfview Ballroom IV
Committee Meetings – Systematic, Ecology, Entomophilic, Extension, Resistance	5:00 – 6:00 pm	Gulfview Ballroom IV

Student/Industry Workshop	5:00 – 6:00 pm	
Cobb Bowl Competition	7:00 – 9:00 pm	Gulfview Ballroom III
Star Gazing at the Pier	8:00 pm	
Tuesday September 14, 2021		
BREAKFAST (on your own)		
Meeting Registration	8:00 am – 5:00 pm	The Burrow
Poster setup	10:00 am – 4:00 pm	Gulfview Ballroom I
Invited Paper Session – Resistant breeding for nematodes Cynthia Gleason	8:00 – 10:00 am	Gulfview Ballroom III
Contributed Paper Session - Host-Plant Interactions	8:00 – 10:00 am	Gulfview Ballroom IV
MORNING COFFEE BREAK (provided)	10:00 – 10:30 am	Ballroom Foyer III & IV
Contributed Paper Session - Host-Plant Interactions (continued)	10:30 – Noon	Gulfview Ballroom III
Workshop Nematology 101	10:30 – Noon	Gulfview Ballroom IV
Cobb Foundation Meeting	Noon – 1:00 pm	Gulfview Ballroom II
IFNS Councilors Meeting	Noon – 1:00 pm	
LUNCH (provided)	Noon – 1:00 pm	

Contributed Paper Session – Entomophilic Nematodes	1:00 – 3:00 pm	Gulfview Ballroom III
Contributed Paper Session – Management 1	1:00 – 3:00 pm	Gulfview Ballroom IV
AFTERNOON COFFEE BREAK (provided)	3:00 – 3:30 pm	Ballroom Foyer III & IV
Contributed Paper Session - Ecology and Behavior	3:30 – 5:00 pm	Gulfview Ballroom III
Contributed Paper Session - Nematology Issues in Developing Countries	3:30 – 5:00 pm	Gulfview Ballroom IV
Committee Meetings – Graduate Student, Biological Control, Regulatory, Industry, Education	5:00 – 6:00 pm	Cypress
Wine and Cheese Poster Session	6:00 – 8:00 pm	Gulfview Ballroom I
President’s Reception (by invitation only)	8:00 – 9:00 pm	

Wednesday, September 15, 2021

BREAKFAST (On your own)		
Poster takedown	8:00 am – 1:00 pm	Gulfview Ballroom I
Nature tours	8:00 – Noon	TBA
LUNCH (provided)		
Capacity building grant program workshop -	Noon – 1:00 pm	Gulfview Ballroom II
	1:00 – 3:00 pm	Gulfview Ballroom IV

AFTERNOON COFFEE BREAK (provided)	3:00 – 3:30 pm	Ballroom Foyer III
Annual Membership Meeting	3:30 – 5:00 pm	Gulfview Ballroom III
Reception	5:00 – 6:00 pm	Gulfview Ballroom I
Awards Banquet	6:00 – 8:00 pm	Gulfview Ballroom I
Thursday, September 16, 2021		
Executive Board Meeting	8:00 am – Noon	Executive Boardroom
(Breakfast provided)	7:00 am	
Committee Meetings – for those that were not able to meet.		
NE 2140 Nematology Working Group		



Society of Nematologists Call for Award Nominations for 2021 (award presented in 2022)

The SON recognizes individuals for scientific excellence and contributions to the science of nematology through several awards. A member of the society may nominate one candidate per year for each award. It is important that nominations provide a critical analysis of the nominee's contributions. The Honors and Awards Committee encourages members of the Society to actively seek candidates with outstanding records and nominate them for an appropriate award for the year of 2021. One candidate are chosen for each award.

Fellow of the Society is granted by the Society to a member in recognition of distinguished contributions to the science of nematology. No more than 0.4% of the living membership may be elected Fellow in any given year. This honor is bestowed upon a member who has excelled in areas of significant research, teaching, extension, administration, or through contributions in service to the Society of Nematologists or the science of nematology above and beyond that of most of its members.

The Syngenta Crop Protection Award is presented by Syngenta, Greensboro, NC, to a person who has made contributions in nematology, not previously recognized, which has led to significant advancement in agriculture. The contributions should have been made within the last 5 years and the nominee should be within 15 years of receiving a Ph.D. degree at the time of the award.

Teaching Excellence Award recognizes a SON member for excellence in teaching nematology. The nominee must have excelled in classroom teaching of a nematology course or through developing innovative nematology teaching materials for use in a classroom-setting (K-12, undergraduate or graduate level).

NOMINATION INSTRUCTIONS:

The nomination packet must be submitted by July 1, 2021. Any mem-

ber of the Society may submit nominations and the nomination process is performed in confidence. Each nomination packet should include the following:

1. Statement. This should include the nominee's name, educational background, current and previous positions, and contributions to nematology and agriculture in the scope of the particular award. The statement must also explain and document the significance of these contributions. Each statement must be double-spaced and no more than 4 pages long.

2. List of publications. A listing of publications separated if possible into the following categories: a) peer-reviewed journal publications, b) book chapters or reviews, and c) other publications such as bulletins, laboratory manuals, extension publications, etc. The publication list must be single-spaced.

3. Letters of endorsement. Besides a cover letter, each nomination should also include two letters of endorsement. The letters should be addressed to Isgouhi Kaloshian, Chair of the Honors and Awards Committee.

Electronic submissions are preferred. Send Word, WordPerfect, or PDF documents to Isgouhi Kaloshian at ikalosh@ucr.edu



SON ABSTRACT ****DEADLINE: JUNE 30, 2021****

□ Abstracts received after the deadline will not be accepted.

□ SUBMISSION OF ABSTRACTS AND GUIDELINES FOR ORAL & POSTER PRESENTATIONS AND STUDENT COMPETITIONS

□ GENERAL INSTRUCTIONS

1. Abstracts & payment must be received by the deavia the SON website, not emailed. Abstracts received after the published deadline will not be accepted.
2. All abstracts, whether registered for in-person or virtual presentation, will be published in a program booklet that will be distributed at the meeting. This version is unedited; therefore, you are requested to have your abstract reviewed by two colleagues before submission.
3. Abstracts for oral and poster presentations (both in-person and virtual) will also be published in the Journal of Nematology. This version is edited before it is accepted for publication. The abstract may be returned to the author for revision.
4. The \$50.00 per abstract payment must accompany the abstract submission. Payment should be made by credit card during the website submission. However, if you would prefer to pay by check (payable to SON) or a bank transfer, this must be done before the abstract will be accepted.
5. If a paper or poster is not presented at the meeting the abstract will not be published.
6. Time for oral presentations = 12 minutes, plus 3 minutes for discussion.
7. A computer and LCD projector will be available for oral presentations. A laptop and LCD projector will also be available in a preview room. Presenters should bring

their talks prepared in Powerpoint or a Powerpoint-compatible format. **All talks need to be preloaded before the beginning of the session**

ABSTRACT FORMATTING INSTRUCTIONS

1. The abstract must be submitted as a MS Word document in 12-pt font (a Times font is preferred), single spaced, with left justified margins and right unjustified margins. PDF files will not be accepted.
2. TITLE OF THE ABSTRACT SHOULD BE IN ALL CAPITAL LETTERS.
3. Include the full name of the first author (last name, first name).
4. Additional authors should be listed by initials followed by surname.
5. **All authors should be listed using bold print.**
6. List author addresses immediately after the list of authors. Use superscript numbers to clarify authors and addresses.
7. Start the abstract on the line following the line with the last author's address.
8. Indent the first line of the abstract 5 spaces.
9. Scientific names should be *italicized* but omit taxonomic authorities and references.
10. Abstracts are limited to 500 words **including** title authors and addresses.
11. If you have any publication or formatting questions, please contact the JON Editor-in-Chief. Do not submit the abstract by email, contact the Editor-in-Chief with questions only: Ralf J. Sommer, ralf.sommer@tuebingen.mpg.de

□ **Please use or review this Abstract Template for Format-**

□ SUBMITTING YOUR ABSTRACT

1. Your abstract will be limited to 500 words.
2. Abstracts must be received with payment by the deadline via the SON website (not emailed) .
3. Abstracts for all SON oral and poster presentations must be submitted via the SON Website's [2021 Abstract Submission Form](#).
4. In order to complete submission, you will be asked for a \$50 Abstract submission fee in order to cover publication costs in the Journal of Nematology.

INSTRUCTIONS FOR POSTERS (in-person)

Each poster will be given a number and allotted a space 3' high x 3' wide (or 91 cm x 91 cm) (Portrait). The spaces will be numbered ahead of time so that you will know where to place your poster. Pushpins will be provided for mounting the poster.

Indicate the title, and name(s) of author(s) at the top of your poster so that it may be identified easily; the lettering for this heading should be at least 1" (30.5 cm or 72 points) high.

As a general guideline, text and illustrations should be comfortably read from a distance of 3 to 4 feet (or 1 m), so make them large enough to be seen clearly. Charts, drawings, photographs and illustrations might well be similar to those used in making slides and more heavily drawn. Simple use of color can effectively add emphasis. Your poster should be printed on lightweight materials that could be supported by pushpins. Hand-lettered material is generally unsuitable for professional and effective poster presentation. Typed material should use the largest font possible, but at least 30 points in size. Illustrated materials should be kept simple. It also might be useful to have small copies of the poster for handouts.

VIRTUAL POSTER PRESENTATION INSTRUCTIONS

Virtual poster presenters will need to email Billy Crow (wtrc@ufl.edu) a poster (42x60 and 600dpi) in **jpeg** format and a < 5 minute high-quality digital audio recording (mp4 format) discussing the poster before September 1st.

These individual, pre-recorded presentations will be turned into a video presentation montage to be played during the in-person poster session. Each poster will come up on the screen for 5 minutes and the audio narration will play, then the video will move to the next poster. The video will play on a continuous loop during the wine and cheese poster session.

The posters will also be made available for viewing on the SON website (no audio) to those who register for the meeting face to face or virtually.

□ STUDENT COMPETITIONS

- When you submit your abstract for the 2021 Society of Nematologists Annual Meeting in Gulf Shores, you will have the opportunity to sign up for one of two student competitions (students may not enter both competitions) in the Category selections.
 - Traditional Oral Competition – \$250 first place, \$100 second place.
 - 12-minute presentation + 3 minutes for questions
 - Three Minute Thesis Competition – \$250 first place, \$100 second place.
 - 3-minute presentation + 1 minute for questions

The Traditional Competition will be limited to 12 students. If more than 12 students sign up, the abstracts will be used to select the 12 students. The abstracts will be judged on quality of writing and science. Students who are not able to be in the Traditional Competition will be given a choice to present in the Three Minute Thesis Competition or in a regular session.



"Crossing borders: a world of nematode diversity and impact to discover"



Announcing New Dates for the ICN 2022

Dear participants,

The Seventh International Congress of Nematology meeting dates have **once again** been rescheduled due to the coronavirus situation. **The ICN 2020 will be held 1-6 May 2022 at the Palais des Congrès in Antibes Juan-Les-Pins (France).**

This decision was proposed by the meeting organizers in consultation with the European Society of Nematologists. Representatives of the 18 nematology societies comprising the Congress met and agreed unanimously that the change is necessary because of continuing uncertainty about when travel and meeting restrictions will end, and when most people will decide it is again safe to travel. All societies rejected the option of cancelling the 7th ICN, because it is the only nematology meeting fully organized, funded and ready to occur when the pandemic ends, and because cancellation would incur enormous financial penalties. Most other 2021 on-site, international conferences are rescheduling to 2022 for similar reasons.

The **scientific program** will be maintained as nearly as possible in its current form, but with revised dates. Authors will have the opportunity to revise their original abstracts and session organizers will have the ability to review and revise their agendas. We kindly ask authors not to contact us at this time as conference arrangements are being adjusted. More information will be sent in due course.

Bursaries that were awarded previously will be honored for those attending the Congress. A second bursary competition for graduate students is being considered, pending the availability of funds.

Official letters from the ICN Organizing Committee, requesting refunds/rescheduling of airline tickets for Congress delegates, will be sent to airlines and can be obtained from lwduncan@ufl.edu.

Again, we advise you to make the appropriate changes regarding travel and, if you made your own booking (not with Alpha Visa Congrès), hotel reservations. Participant's registration fees will be transferred automatically and hotel reservations arranged by Alpha Visa Congrès will be rescheduled to the new dates

which you will be able to modify according to new travel plans.

Registration for the Seventh International Congress of Nematology is currently 744 nematologists from 59 countries, including 100 student and early career scientist bursary recipients. The scientific program comprises 32 concurrent sessions with 288 oral presentations, 12 workshops, 12 keynote speakers, and poster sessions with more than 500 presentations. The mid-meeting excursions will provide outstanding

opportunities to explore the splendid nature and the amazing culture of the French Riviera.

Very few nematology meetings will have occurred in the entirety of 2020-21. Hopefully, opportunities to interact virtually will be provided by some societies and possibly the IFNS in the coming months. But the 7th ICN will be an important opportunity to finally meet together again, face to face, to renew our work among friends, colleagues and students. We look forward to welcoming you in Antibes in 2022, where we shall celebrate an end to the crisis at a truly memorable scientific meeting.

Dr. Pierre Abad, 7th ICN Chair

Ernesto San-Blas, Scientific Program Chair

Larry Duncan, IFNS President



Manatees May Carry Half a Million Microscopic Hitchhikers

Source, *Science* Feb. 2021



Unexpected species of nematodes, some of them new to science, were found living on the skin of the marine mammals.

The study reports that three nematode species — two previously unknown — were found in skin samples from Florida manatees. The authors estimated that the skin of an average adult manatee could potentially carry over half a million nematodes.

“It’s like elephant skin,” said Cathy Beck, a scientist emeritus at the U.S. Geological Survey and a co-author of the study. “There’s lots of little nooks and crannies and pores, and they have very small fine hairs about an inch apart, so there’s lots of little places for minute organisms to live, to attach, and for algae to grow.”

“For us, that was sort of strange, to be finding these things that we’re used to finding in little, tiny bugs on the back of a sea ele-

phant, basically,” said Mr. Gonzalez, who completed the research while working as a nematode biologist at the University of Florida’s Fort Lauderdale Research and Education Center.

With this research, “we learn more about the ecology of these nematodes, we learn more about how specialized they are,” said Karin Kiontke, a biologist at New York University who was not involved in the study. “And it also tells us how much we don’t know.”

The team found what was probably *C. manati* — and two other nematodes.

Though more work is needed for formal species descriptions of the two new nematodes, “I think you could comfortably say these are new species,” said Adler Dillman, an associate professor at the University of California, Riverside, who was not involved in the study.

The nematodes, the study suggests, are specially adapted to flourish in this decaying micro-landscape, where structures on the skin would be as tall to them as trees are to people. All three manatee nematodes were found on all the manatees sampled in 2018 and 2019, but no skin lesions were found; the authors concluded that it was unlikely that the nematodes were hurting their hosts. Perhaps, they suggested, they’re passed between manatees like human skin mites.

For now, the researchers hope to generate more enthusiasm for nematodes as well as their gentle manatee hosts.

“We get so focused in the big world that we don’t realize how interconnected everything is,” Dr. Giblin-Davis said. “And how reliant we are on so many things that we don’t see.”

THE NATHAN A. COBB NEMATODOLOGY FOUNDATION

Terry Niblack, Chair David Shapiro, Vice-Chair Axel Elling, Treasurer Janete Brito, Secretary

“Promoting Nematology Worldwide”

Nathan A. Cobb
1858-1932



The Cobb Foundation Video Contest is back!

The Cobb foundation invites students and post-docs to share an aspect of nematology that fascinates them in a video. All videos will be presented on the Cobb Foundation website and winning videos will earn cash prizes!! You have until June 30, 2021 to submit your videos.

Details at: <https://nematologists.org/Cobb-Video-Contest>

For questions and additional information, please contact The Cobb Foundation cobvideocontest@gmail.com

Past contest videos:

https://www.youtube.com/playlist?list=PLQunXbtYdyTGXsECJ_fm1AwN-D3XBGTwrr



Creating the Nematology of Tomorrow

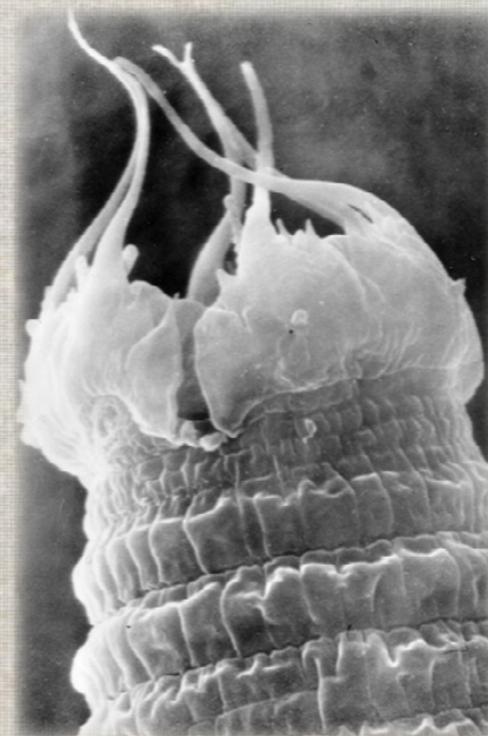
When you contribute to the Nathan A. Cobb Foundation you are helping to build capacity in Nematology – capacity to step up to some of the grandest scientific challenges humans face.

Our students and early career researchers are changing the future of Agriculture, Biomedicine, Education and the Environment, and making fundamental discoveries about the world we live in. With the support of the Cobb Foundation, students can attend scientific meetings and workshops where they can present their latest research findings, but also network with other potential collaborators and future employers in science and industry. Talk about bang for the buck!

In the hustle and bustle of the holiday season, it can be easy to lose sight of what really matters. As you pause for a moment of gratitude, consider how financial support to a student can radically change their trajectory. It certainly changed mine. How about you?

To make your tax-deductible donation go to <https://nematologists.org/sys/website/?pageId=7744>.

Thank you, Byron Adams, Chair, Cobb Foundation



Scottinema lindsayae is a nematode species that lives in Antarctica, in the McMurdo Dry Valleys. *Scottinema* feeds on soil microorganisms such as bacteria, which are the main players of carbon and nutrient cycling. By being their “predator”, *Scottinema* regulates their abundance and biomass turnover, and in doing so it influences the cycling of carbon and nutrients. Photo courtesy of: M. Mundo

Call for Nematode Trading Cards

Please consider making your submission(s) to the Nematode Trading Card Collection organized by Dr. Jon Eisenback. Six different templates are available for the following categories: 1. People (red background), 2. Nematodes (green background), 3. Habitats (yellow background), 4. Morphology (orange background) 5. Symptoms (purple background) and 6. Control (blue background). If you have any questions, please feel free to contact Dr. Jon Eisenback (jon@vt.edu).

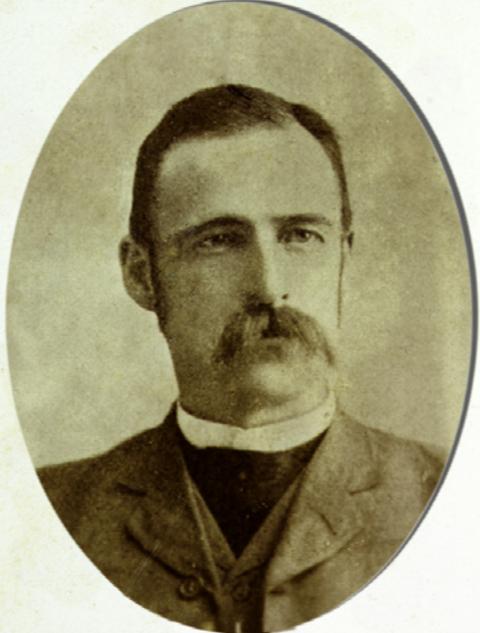
Diplogaster Free-living



Diplogaster male and female

These nematodes live in diverse habitats and often have parasitic or commensal relationships with insects. Some species may be predators and feed on other nematodes. They have a two-part esophagous from which they get their name. Many species have diverse and complex mouth structures, but most have at least one tooth.

④ 32



N.A. Cobb
Sydney Australia
1905
L. Caporelli
PADOVA
Da via Annunzio Rana
5. 1905

Root-knot nematode Sweetpotato



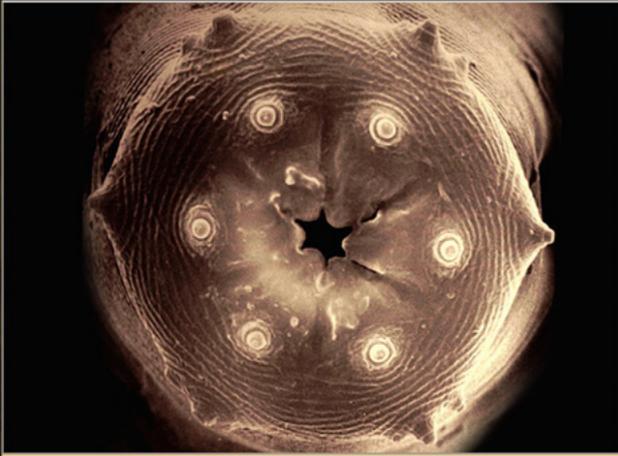
Cracking

A distinct symptom caused by root-knot nematode, *Meloidogyne* spp., on sweetpotato is cracking of the root along the length of the root. Very low levels of second-stage juveniles in the soil can cause these cracks.

④ 17

Nerves

Sensory organs



Nervous system

Most nematodes have an oral opening that is surrounded by six lips that contain six inner labial papillae, six outer labial papillae, four cephalic papillae, and two amphidial openings. These openings are posterior to the anterior end as seen in this SEM micrograph, or they are at the level of the lips, between the labial disc and the lateral lips.

④

45



1886-1961

USA - USDA



Gotthold Steiner

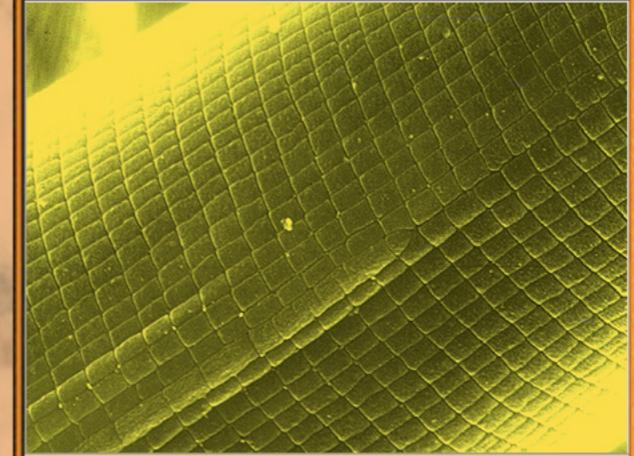
Working with N. A. Cobb on all forms of nematodes, he replaced him as Principal Nematologist at the USDA. His publication, "Plant-Parasitic Nematodes the Growers Should Know," was a classic, and helped nematodes gain recognition for the economic impact that they cause to plant production. He served the Helminthological Society of Washington as President and was honored as a Life Member.

④

22

Body wall

Cuticle



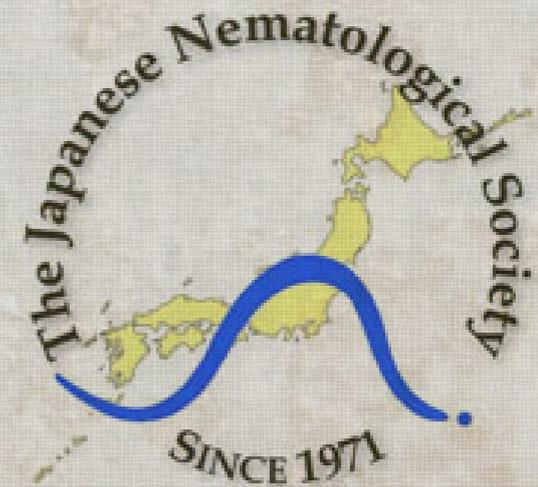
Tessellation

A mosaic cuticular arrangement that is made up of longitudinal lines that are divided by transverse markings forming a checkered pattern.

④

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European Society of Nematologists



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We wish to express our gratitude to the following companies who support our society and contribute to its continued growth:



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"Promoting Nematology Worldwide"

Nathan A. Cobb
1858-1932



Dear Nematology Newsletter Readers and SON members:

Two items are listed for your consideration. Since we know that students are the future of our discipline, please consider supporting the Nathan A. Cobb Nematology Foundation: <http://www.crec.ifas.ufl.edu/societies/nacobb/projects.shtml>. This foundation's primary purpose is to raise money to provide travel for students to scientific meetings.

To continue to be a member in good standing, please pay your dues. Also, please make a generous contribution to the Nathan A. Cobb Nematology Foundation with your tax-deductible support to the Foundation when you renew your SON membership at <http://nematologists.org/products/>.

If you have any contributions for the quarterly newsletter, please email me directly.

Gary Phillips, Editor
Nematology Newsletter

Please submit your contributions to the *Nematology Newsletter* at the following email address:
gphilli9@utk.edu

