

# National Shellfisheries Association Quarterly Newsletter



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2014 (3)

## President's Message

Greetings from the beautiful coast of Maine. Although we Mainers pay our dues during the long winter months, the warm, sunny summer days and cool nights we've had these past months seem to make it all worthwhile. In spite of the fun in the sun this summer, it's been a busy time behind-the-scenes at the NSA.

Plans are in full swing for a great annual meeting when we return to Monterey, CA March 22-26, 2015. With nearly twenty-five special sessions in the works through the hard work of Sandy Shumway, our Conference Manager, now is the time to be pulling together an abstract for the meeting. The online abstract submission period will run from October 1 - December 15 via the NSA web site.



Although mentioned at the annual meeting in Jacksonville last March, I'm pleased to announce the formal creation of the Neil Bourne-Kenneth K. Chew Award for outstanding contributions to outreach, extension, education, and aquaculture or shellfisheries. This award is meant to recognize an individual who has demonstrated outstanding contributions to each of these four areas as exemplified by both Ken and Neil. Similar in stature to the Honored Life Member and Wallace Awards, this Award will be reserved for truly outstanding individuals who excel in each of the areas of specialization. (To learn more about these two men's amazing contributions, see Skyler Bayer's article in pages 4 and 5.) Guidelines for making nominations for these three awards are further described on 7.

Finally all you students out there once again have a great chance to receive grant funding (and recognition) for your research and presentations at the Annual Meeting as described on pages 2 and 7. I hope you will take advantage of the opportunities.

Chris Davis

## MONTEREY on the Horizon....

The 107th annual meeting will be held at the Monterey Marriott Hotel from March 22-26, 2015. Regular updates will appear on the NSA website and there is a direct link to book your hotel room. Book early, we are expecting a large turnout.

The program is taking shape, there are already over 20 confirmed special sessions and several others still in the planning stages. Again, keep an eye on the web page for updates and contact information for session organizers. It is not too late to organize a session, if you are so inclined, contact Sandy Shumway soon.



Confirmed plenary speakers include Professor Peter Cook (University of Western Australia, abalone), Dr. Sam Dupont (University of Gothenberg, ocean acidification), and Dr.

*Continued on page 3.*

### ***In this issue:***

- ***The Bourne - Chew Identity***
- ***Changes at Sheridan Press***
- ***Call for Student Research Grant Proposals***

## Recruits' Corner

As the summer research season winds down we hope this finds you all well. Preparations for the 107<sup>th</sup> Annual Meeting in Monterey Bay, CA are underway. Take a moment to visit the NSA website ([shellfish.org](http://shellfish.org)) and see some of the early highlights of this meeting, including the tentative special sessions that are being planned. As you all know, student volunteers are a big part of the meeting's success and in the coming months we will be counting on your help to make this meeting happen. Monterey will be a great host city, and we are in the process of planning some amazing activities, including the return of the scavenger hunt and our student mixer for the recruits to experience all that this great city has to offer. Additionally, we are planning a behind-the-scenes tour of the Monterey Bay



Aquarium, a local night dive, and a fun run. If you have any ideas for activities, or saw something at a previous meeting and would like us to bring it back, please feel free to e-mail us. Currently the student panel is being put together, focusing on all possible career paths for our graduating recruits. If there is anyone coming to the meeting you would like to hear from, or any items you would like us to cover or explore, just shoot us a line. Any and all suggestions are always welcome. We hope the NSA recruits continue to make their presence felt and participate fully in this coming meeting. Abstracts are due December 15, 2014 and don't forget to apply for SEF travel awards! (Information can be found at: <http://www.shellfish.org/sef-student-presentation-and-travel-awards>). This is a competitive award, and the deadline for application is when abstracts for the meeting are due. You can apply for an SEF Travel Award every year, even if you have previously won, and help defer the costs to come to Monterey. In addition to travel assistance, there are currently three scholarships offered by the National Shellfisheries Association geared toward student research; the Carriker Grant, the Castagna Grant, and the George R. Abbe Research Grant. They are each worth \$1250 to cover any research costs. Applications are due November 30, 2014. You can apply to more than one grant, but a different project must be proposed for each. We encourage you to take advantage of these grants and apply! More information can be found online (<http://www.shellfish.org/student-members>). We hope to hear from you soon! Additionally, we encourage you to keep an eye on the NSA web site for future announcements and look for the revamped Facebook page to be launched soon—we will be communicating with the Recruits on these pages, and can answer any questions you may have.

If you are interested in getting involved for future meetings, the Student Recruits' Chairs are looking for a new student to help us with meetings and assisting fellow recruits. If you are interested, please email Hillary & Maria and we can give you more details. Looking forward to seeing you all in Monterey!

Maria Rosa and Hillary Lane

## Student Research Grant Application Deadline: November 30<sup>th</sup>

The deadline for applications for three student research grants offered by the National Shellfisheries Association is fast approaching. The Melbourne R. Carriker Student Research Grant supports promising basic research in the area of shellfish while the Michael Castagna Student Grant for Applied Research supports applied areas of research in shellfish and aquaculture. The George R. Abbe student grant supports research specific to crustacean biology and fisheries management. All of these competitive grants help cover the costs of conducting research in an era of dwindling financial resources. I strongly encourage students to apply for these awards. The process is relatively painless and the potential rewards are great! Students may apply for all the awards, but must submit separate applications that highlight appropriate aspects of their research for each. An applicant must be a NSA student member in good standing and currently enrolled as a M.S. or Ph.D. student in a recognized, degree-granting institution. Students may not apply for an award they have received previously. The deadline for applications is November 30<sup>th</sup>, 2014.

Recipients of Carriker, Castagna, and Abbe Awards are expected to present the results of their research at an annual meeting of the Association and write a synopsis of their research for the NSA Quarterly Newsletter. These awards provide students with \$1,250. The funds are intended for the purchase of supplies and equipment essential to perform their research, and are not intended to enable purchase of general items, such as computers, or to fund travel expenses associated with attendance at professional meetings. The good news is that students can apply for travel support through the NSA Student Endowment Fund (see page 7).

To apply for the Castagna, Carriker, or Abbe Awards, send the following as a single pdf file to Past President, LeRoy Creswell ([creswell@ufl.edu](mailto:creswell@ufl.edu));

*Continued on page 6.*

## Changes in JSR Publication Team

Denny Miller, our long-standing Production Editor at Sheridan Press and Dartmouth Journal Services has retired. Denny has been an instrumental part of our team for many years and has seen JSR through a number of changes and improvements. He has also been an indispensable help in putting together our annual meeting program and abstracts. His talent, patience and helpful manner will be missed.



Denny Miller

While we will miss Denny, we are very happy to welcome Jacquelyn Goss who has been named to replace Denny and has already taken over the reins. Jackie has an extensive background in publishing and has worked on several major journals previously including *Annals of Surgical Oncology*, *Annals of Vascular Surgery*, *Archives of Insect Biochemistry and Physiology*, *Developmental Dynamics*, *Diagnostic Cytopathology*, *Drug Development Research*, *EcoHealth*, *Journal of Cellular Physiology*, *Journal of the American College of Cardiology*, *Microscopy and Microanalysis*, *Neurourology*

### Monterey Meeting *Continued from page 1.*

Robert Vrijenhoek (Monterey Bay Aquarium Research Institute, deep sea molluscs and microbiology).

There will be the usual activities including the opening seafood reception, auction, and business luncheon. Also in the planning is a possible 'run', and perhaps a group dive among the kelp and sea lions. A special workshop is planned for the students: *The career path is rarely straight!*

Confirmed sessions to date include: Down on the Farm, Disease, Geoducks, Policy and Regulations, Green crabs, Outreach, IMTA/Offshore Aquaculture, Commercial fisheries, Climate Change and Ocean Acidification, Crustaceans, Calcification, Economics, Echinoderms, Abalone, Biofouling, Physiology, Olympia oysters, California shellfish, Shellfish and Eutrophication, Whelks and Crustacean Disease. Still under development are Breeding/Genetics, Proteomics, Restoration, and Squid.

Sandy Shumway  
Conference Manager

and *Urodynamics*, *Pediatric and Developmental Pathology*, and *World Journal of Surgery*! She has also copyedited *Neuron*, *Molecular Cell*, *Cell Metabolism*, and *Cell Host & Microbe*, and *Integrated Environmental Assessment and Management*.

There is some marine experience: she copyedited a marine biology textbook and accompanying teacher's guide, *Signals of Spring—Animals in Curriculum-based Ecosystem Studies*. She has wasted no time getting to know NSA and JSR and we are all very much looking forward to working with her. The transition has been smooth, but there may be a slight delay in delivery of the current issue as a result of the changes.



Jacquelyn Goss

Our thanks to everybody at Sheridan Press, Denny, and Jackie, for making this as painless a process as possible.

THANK YOU, DENNY, for all of your efforts on our behalf, JSR is a better publication thanks to you. We wish you all the very best as you begin enjoying all of your new found free time!

### ON-LINE CALL FOR PAPERS OPENS OCTOBER 1

for the 107<sup>th</sup> Annual Meeting of the NSA  
March 22-26, 2015 in Monterey, CA

ALL ABSTRACTS ARE DUE  
DECEMBER 15

Abstracts must be submitted electronically through the website ([www.shellfish.org](http://www.shellfish.org)). Full instructions for abstract submission can be found on the NSA website. No abstracts will be accepted via fax transmission. If you are unable to submit an abstract using the NSA website or have any questions about abstract submission, please contact:

Dr. Sandy Shumway,  
NSA Conference Manager  
([sandra.shumway@uconn.edu](mailto:sandra.shumway@uconn.edu))

## “THE BOURNE-C

This year the Bourne-Chew award will be bestowed upon a deserving scientist who embodies the Bourne-Chew identity – a person who has dedicated their career to aquaculture or fisheries research, mentoring, teaching, and promoting understanding and knowledge among industry members, the academic community, particularly students, and others. But what do we know about Neil Bourne and Ken Chew?

While still based on the east coast of Canada in St. Andrews, New Brunswick, Neil Bourne’s first NSA meeting was in 1962 at the Mayflower Hotel in Washington, D.C., a venue where Neil could communicate with his fellow molluscan researchers in North America (and today throughout the world).

In 1965, Neil moved to the Pacific Biological Station in Nanaimo situated on Vancouver Island in British Columbia. While Neil had started his research career with research on *Placopecten magellanicus*, (a species near and dear to my own heart and dissertation work), he continued researching and publishing on the basic biology of Pacific coast molluscs. Interests included researching harvesting gear and techniques, conducting surveys of bivalve resources in B.C., and developing aquaculture methods for a number of other shellfish species, including weathervane and rock scallops.

In 1962 Ken Chew received his Ph.D. from the University of Washington. He originally studied trout and salmon, and maintained ties to fish culture throughout his career, but after one summer at the Department of Fisheries shellfish lab in Brinnon, he became hooked on molluscs. His thesis work was specifically focused on growth and survivorship of Pacific oysters transplanted to Washington State. Ken began an equally ambitious and impressive career conducting research and publishing on the biology and aquaculture of Pacific molluscs. Ken was also just a few hours south of Neil in Seattle at the University of Washington.

While Ken worked across the US-Canada border, Neil continued the work of Dan Quayle studying natural populations of bivalves along the coast. He also began culturing butter clams and became involved with the British Columbia oyster industry. He collaborated with the industry, now transitioning from the growing and harvest of native (*Ostrea lurida*) oysters, to studies on breeding and oyster seeding practices of the Pacific oyster now introduced to Pendrell Sound and numerous other BC locations.

Although both Ken and Neil had access to research facilities, Ken had greater access to students and in 1970 Ken invited Neil to be an Affiliate Professor at the School of Fisheries at the University of Washington. This opened the door for Neil to mentor and assist students in completing research projects in aquaculture. “It was one of the best things that happened to me in my career,” says Neil, “it was a pleasure to be associated with Ken, with the University and in particular to

have contact with graduate students.” For Neil, “Seeing various students, some of whom did their research work in my lab, complete their graduate degrees was a highlight. “

By inviting Dr. Bourne to be an official Affiliate of the school, Ken was beginning not only a long friendship, but a strong foundation of cooperative research

and outreach between industry, academics, government officials and particularly students. Ken has since been an advisor to over 100 students; Neil was an advisor to over 20 students at UW, Simon Fraser University, British Columbia University and University of Victoria – no small accomplishment for a government scientist. They have been “significant and influential mentors to so many students,” says Jay Parsons, “that it is only fitting that their legacy continues with this award from the NSA.”



Dr. Neil Bourne

After being invited as an Affiliate Faculty member of the School of Fisheries, Neil, with the help of Ken and his students, began investigating the feasibility of establishing a Manila clam culture industry in Canada. Ken and his group had developed the technology to culture Manila clams in Washington State and together with Neil they were able to study methods for quickly growing seed clams. The methods for farming Manila clams were refined, based on this research, and continue to be used by the industry today.

Ken, working with other faculty and students at the UW, assisted in the development of triploid Pacific oysters, the standard used today. His work focused on other important issues the industry faced including paralytic shellfish poisoning (PSP) and baseline ecological studies of intertidal and subtidal benthic communities – foundation work for any aquaculture industry. Many of the methods he developed during his career are used daily by aquaculturists today. Because of his research, Ken was instrumental in establishing the US Department of Agriculture Regional Aquaculture Centers in the United States, starting with the Western Regional Aquaculture Center (WRAC) in his home institution’s state. This year, NOAA Fisheries named their newly constructed shellfish hatchery and laboratory at the Northwest Fisheries Science Center’s Manchester Research Station after Ken.

On a local level, Ken was a key player in developing the School of Aquaculture and Fisheries Science (SAFS) at the UW. As the director of SAFS, he was largely responsible

## HEW IDENTITY”



*Dr. Ken Chew*

for founding buildings dedicated to Fisheries Research. In 2004 SAFS named a professorship after Ken for two- to six-month collaborative visits.

Neil and Ken spent their careers working on aquaculture issues not only near, but far and wide as well. Ken

has been involved with projects in Australia, Chile, Japan, Thailand, Taiwan, the Phillipines and China. In 1980 he served as a member of the First U.S. Aquaculture Delegation representing the U.S. Department of Commerce to the Peoples Republic of China. Ken served as a visiting professor at Institute of Oceanology, Academia Sinica, at Qingdao College and Shandong College of Oceanography in China. He also introduced the bay scallop (*Argopecten irradians*) to China which is the basis of their scallop industry, by far the largest in the world today.

Neil took time to be involved in foreign aid work, serving in Fiji as the Director of Fisheries Training Program at the University of the South Pacific in Suva, and several other countries including the Peoples Republic of China. These opportunities brought projects together like Neil's development of the Japanese scallop industry in British Columbia in the 1980s.

Needless to say, these two have been leaders in the development of reliable methods and communication of aquaculture practices on a global level. As Bill Dewey put it, "In the Pacific Northwest and throughout the world, these names are synonymous with shellfish expertise. Collectively they have contributed so much to shellfish research and policy and mentored hundreds of students who are now carrying on their legacy."

Since Ken first invited Neil to be an Associate at the UW, both have served as presidents of the NSA (Ken, 1971-1972; Neil: 1981-1982) and while Neil was president Ken received the first Wallace Award He was awarded the Honored Life Member award in 1989. Neil wasn't far behind Ken as he was awarded the Honored Life Member in 1990 and the Wallace Award in 1991.

Sandy Shumway recently commented that over the years, "the membership did not understand the requirements for the Wallace Award and, on numerous occasions, nominations were submitted for individuals who had outstanding back-

grounds in various combinations of education, outreach, and aquaculture – not the basis for the Wallace Award..." So, after a proposal was put forth for a new award for an individual who excelled in all these areas, a name had to be chosen. Dr. Shumway continued, "While it did not have a 'name' at that moment, it seemed an obvious choice to name it for Neil Bourne or Ken Chew, both with extensive successes in all of these areas, stalwart NSA members, Past-Presidents, Honored Life Members, and Wallace Award recipients -- and how to choose between two such distinguished and accomplished men? Thus, the decision was made to name it for both: the Bourne-Chew Award (in this order because Neil won the alphabet race). This has special meaning as Ken and Neil have been great friends and colleagues throughout their long and distinguished careers and most fitting that their names should be officially linked in perpetuity."

"This award is a wonderful tribute to two outstanding scientists who have devoted their lives to advancing shellfish biology and aquaculture, mentoring younger students and colleagues, and making major contributions to the commercial shellfish industry, both nationally and internationally," says Kay McGraw, a former student of Ken's, "They have also taken time to be involved in public service."

While Neil and Ken have collaborated and shared students, they are great friends, as mentioned above, a fact that many NSA members appreciate and I came to appreciate myself when learning about their interest in birds. As Sandy told me, she "often wondered how such an avid birder (Neil) and an equally avid bird hunter and taxidermist (Ken) managed to channel those passions to secure such a great pairing!"

When I asked Ken and Neil about their favorite birds Ken commented that "Neil knows I am a hunter and grits his teeth when I tell him at times about my exploits of shooting all those upland game birds (even ducks) since age 11. Good thing our interest is so strong on shellfisheries/aquaculture teaching and research--- otherwise who knows what would have been the case in so many great years we have known and worked together. This must not have gotten in the way with our compromising hobby interest of birding watching versus bird hunting!"

Ken and Neil are two amazing scientists not just because they loved what they did, but because they are remarkable human beings. They not only put their heart and soul into understanding the biology and ecology of shellfish species, but developing practices, teaching students and reaching out to people all over the world. They are great communicators of science with a lot of heart and have invested their hopes into the people of NSA. They believe that the NSA has a strong future and the NSA has largely them to thank for that future.

Skylar Bayer

## Getting your abstract ready to submit ?

### PLEASE READ!

The Program will be assembled from the abstracts that you submit – in the state that you submit them – and it would make the task so much easier if they were done properly from the get-go. Ever heard the phrase, ‘the job isn’t done until the paperwork is completed’? Well, your scientific research project isn’t done until it is written and published. Scientific writing is still writing and should be taken just as seriously as the experiments that lead to the prose. What has prompted this little piece? A long tenure of reading and correcting poorly written submissions for any number of scientific publication venues, the most recent being the abstracts submitted for our annual meeting. These abstracts are published - that means they will be in print for all eternity with your name attached. And several of us expend many, many hours making corrections, rewriting some to make them at least understandable, and chasing missing information so that neither the Journal nor the authors look incompetent. Some folks in the past have managed to misspell their own names, the towns in which they live (if they even remembered to include the full address), species names in titles were misspelled, abstracts without full addresses for anyone, and some with nicknames rather than full names. Typos galore, misuse of superscripts and subscripts, and the list goes on. In short, it took several people several days to get them into publishable form. Not only is this annoying and expensive, it introduces a new source of potential error when third parties are making corrections. A few notes follow with regard to preparation of abstracts, many of which can also be applied to manuscripts (hint, hint).

A few notes:

- **Follow the requested format**
- **Provide full addresses for all authors (and no nicknames)**
- **Use the requested font (for the abstracts, that is Times New Roman, 12 pt)**
- **Write in the third person (that means no ‘I’ and ‘we’)**
- **Do not begin sentences with Latin names, Latin abbreviations, acronyms, or ‘however’**
- **Salinity has no units**
- **Scientific names are not adjectives**
- **The ‘e’ in eastern oyster is not capitalized**
- **Shellfish have official common names - use them! (See Special Publication 26, American Fisheries Society)**
- **Acronyms are not words, they are abbreviations and they are based upon the first letters of the words in question - do not use apostrophe ‘s’ to indicate a possessive or an ‘s’ to indicate plural.**

‘Cute’ titles are fine for presentations, they usually don’t tell the reader what the abstract is about, nor do they direct anyone using a search engine and key words to the abstract and your work. This may all sound trivial, but we regularly get requests from individuals who wish to follow up with authors - several collaborations have even arisen through these contacts. Point is - the abstracts matter and they are the most downloaded files from the JSR!

So, as you are putting your abstract together for submission, please keep these points in mind and, with everybody’s cooperation, it will be a far less painful process than past years!

Sandy Shumway  
Karolyn Hansen

### Student Research Grants *Continued from page 2.*

- Cover sheet with the applicant’s name, professional address, phone number, email address, thesis title, degree being sought (M.S. or Ph.D.), date they entered the graduate program, and anticipated graduation date.
- Project description - 2-page limit plus one page for figures (if needed). Note, any literature cited is not included in the two-page limit.
- Budget (1 page) - Briefly itemize how the award will be spent (e.g., \$300 for micropipette supplies, \$200 for histology supplies, etc.).
- Resume (1 page) - List educational background, awards/honors, presentations at meetings, and any publications.
- Letter of endorsement (1 page) - The student’s major advisor must provide a succinct letter of support commenting on the student’s research and confirming that the funds are necessary.

Applicants will be notified of the status of their application by January 31st, 2015 and awards presented at the Annual Business Luncheon in Monterey in late March. Additional details are available online at [www.shellfish.org/grants.htm](http://www.shellfish.org/grants.htm).

LeRoy Creswell  
Chair of NSA Awards Committee

## Honored Life Member, David H. Wallace and Bourne-Chew Award Nominations Sought

The National Shellfisheries Association offers three major awards. The Honored Life Member Award is given to individuals who, by their exemplary service to the Association or to the profession, deserve recognition. The David H. Wallace Award is given to individuals whose activities in shellfisheries, aquaculture and conservation have promoted understanding, knowledge, and cooperation among industry members, the academic community, and government, as exemplified by Mr. David H. Wallace during his lifetime. The Bourne-Chew Award is in recognition of an individual whose actions demonstrate the principles in shellfisheries aquaculture, education, outreach, and extension exemplified by Drs. Neil Bourne and Ken Chew during their lifetime in mentoring, teaching, researching, and promoting understanding and knowledge among industry members, the academic community, and government. Recipients of these awards receive a plaque and lifetime membership in the Association.

Nominations for these awards should be carefully considered by those making the nomination. The awards are intended for truly deserving individuals, are prestigious to the individual receiving the award, and important to NSA and our long history. Initial nominations are reviewed prior to forwarding to a Committee of Past-Presidents for consideration. Nominations may then be forwarded to the NSA Executive Committee for final consideration. For more information on these awards, visit the NSA web site ([www.shellfish.org](http://www.shellfish.org)).

Nominations of individuals for these awards should be forwarded to LeRoy Creswell, Chair of the NSA Awards Committee by November 15, 2014.

## Student Endowment Fund Travel Awards

### Attention students!

Looking for travel assistance to help you attend the 2015 meeting in Monterey? Interested in a free NSA membership?

The NSA Student Endowment Fund awards registration waivers and/or free lodging (shared rooms) to students presenting their research at NSA meetings. The deadline for travel award applications is December 15, 2014. Awards are very competitive, and late or incomplete applications will not be considered, so don't wait until the last minute to pull something together!

The Student Endowment and Awards Committee also coordinates evaluations of student presentations for the Thurlow C. Nelson (oral) and Gordon Gunter (poster) Awards. Both awards include free membership for at least one year and are a great addition to your CV. To be eligible, students must be current NSA members at the time of applying and must present their original research at the meeting. Recent graduates may also apply if they present research performed while they were a student, and received their degree during the 12 months preceding the meeting.

You must apply for both travel and presentation awards. For more information on how to do so, please visit :

<http://www.shellfish.org/sef-student-presentation-and-travel-awards>

Stan Allen, Nature McGinn  
& Lisa Milke

Co-Chairs  
Endowment/Student Awards Committee

## Upcoming Events

**16<sup>th</sup> Annual Conference on Harmful Algae.** October 27 - 31, 2014, Wellington, New Zealand. Paper submission deadline: May 15, 2014. For more information, visit: [www.icha2014nz.com](http://www.icha2014nz.com).

**16<sup>th</sup> Annual International Conference on Shellfish Restoration** - "*Restoration in an Ever-Changing World*". December 10 - 13, 2014, Charleston, South Carolina.

**Northeast Aquaculture Conference & Exposition.** January 14-16, 2015 in Portland, Maine. For more information, visit:

[www.northeastaquaculture.org](http://www.northeastaquaculture.org).

**Aquaculture America 2015** - "*Aquaculture 2015 - Center of the Plate*". February 19 - 25, 2015, New Orleans, Louisiana.

**107<sup>th</sup> Annual Meeting of the National Shellfisheries Association.** March 22-26, 2015, Monterey, CA USA.

If you would like to announce a meeting, conference, workshop, or publication that might be of interest to NSA members, please contact the *QNL* Editors, Joth Davis ([jothpdavis@mail.com](mailto:jothpdavis@mail.com)) or LeRoy Creswell ([creswell@ufl.edu](mailto:creswell@ufl.edu)).

**Linda Kallansrude, NSA Secretariat**  
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*Forwarding Service Requested*

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