



THE SCIENTIST AND ENGINEER

December 1999

Vol. 25 No. 1

1999 Election Results

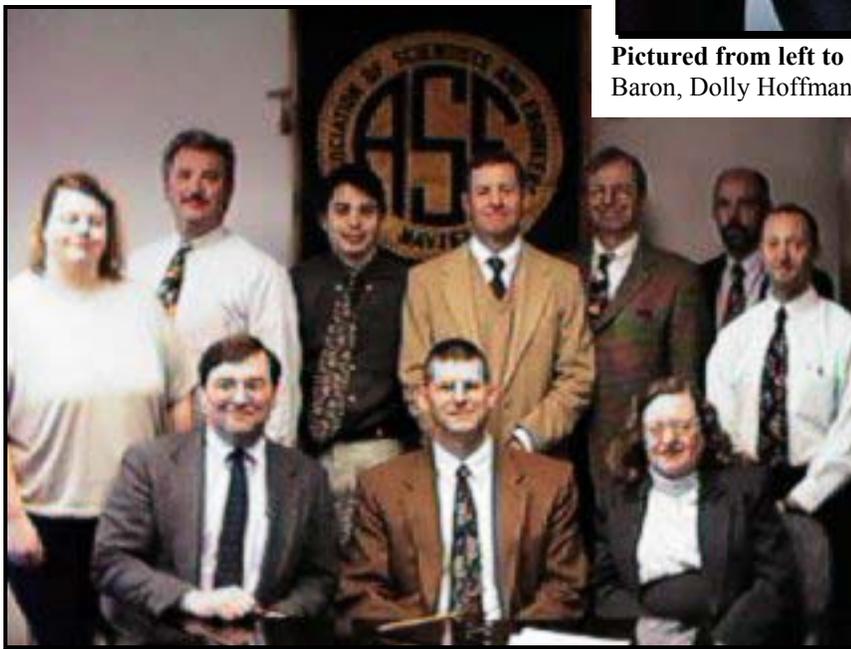
Photos by James David M^cWhite

Congratulations to the newly elected officers! Preparations are well underway for an active year for ASE including the annual symposium, numerous noontime forums, the purchase of new mugs and facilitation of National Engineer's Week

President – Neil Baron
Vice President – Anne Sandel
Secretary – Tom Lockwood
Treasurer – Mary Hunstad
Audit – Mitch Waldman
Membership – Jeff Lawler
Rules/Bylaws – Dolly Hoffman
Legislative – Tom Demas



Pictured from left to right are: Tom Lockwood, Mary Hunstad, Neil Baron, Dolly Hoffman and Jeff Lawler.



Left to right, standing : Billy Douglas, Gordon McCoy, Jim Snyder, John Pattison, Jeff Lawler, Mike Safina, seated: Tom Lockwood, Neil Baron, Dolly Hoffman.

Committees:

Awards – Kathy Obert
 Program – Mike Safina
 History – Neal Zarin
 Science & Ed – Gordon McCoy
 Keymember – Frank Pesce
 Symposium – Billy Douglas
 Vice Chair - John Pattison
 Nominating – Jim Snyder
 Prof. Dev. –William Schoenster
 ASNE Flagship – Rich Celotto
 Nat'l Engineer's Week –Jeff Hough



PRESIDENT'S MESSAGE

By Neil Baron

Greetings all. It is with great excitement and profound humility that I address you today in my new role as your President. The Association of Scientists and Engineers of the Naval Sea Systems Command has provided for me through out my career. From my early days as a NAVSEA CO-OP student to today, ASE has been there, providing a wide range of forums for my professional development and for that I am truly grateful. Now it is time for me to give back to our Society through service as your President for the 1999-2000 term. But first, I first must offer a sincere thanks to our past President, Mr. Jim Snyder, who has given much to our recent successes and epitomizes ASE's convictions through his continued unselfish volunteerism. Thanks Jim.

Running this society is a large responsibility that I do not take lightly. The only reason I can still sleep at night is that you have provided me with an executive board with unprecedented talents. With Ms. E. Anne Sandel as our Vice-President, we have a strong program manager with proven fiscal skills to keep our society solvent and in the black. Mr. Tom Lockwood, no stranger to ASE, has taken over the society's Secretarial duties and is bringing our Executive Board business activities into the computer age, something that has been sorely needed in this day of e-mail and electronic commerce. Ms. Mary Hunstad is our Treasurer this year and with Mr. Mitch Waldman as Auditor, our books could not be in better hands. Ms. Dolly Hoffman has taken over Rules and By-Laws and has already taken on a very necessary ASE constitutional clean-up effort. Expect to hear more on our proposed constitutional changes soon. Mr. Jeff Lawler is our Membership chairman and is already active in updating our roles. Tom Demas fills out the elected positions on the Executive Board with the Legislative position, a role that Tom has taken under assessment this year for a needed update in responsibilities. We can't loose with a team like this. Thanks to all who voted in this past summer's election, we will not disappoint you.

This year will be as busy as ever for our society. With Mr. Mike Safina coordinating the traditional monthly noontime sessions and Mr. Billy Douglas chairing our gala event in the spring, our annual symposium and awards banquet, there are many other ways our society keeps busy. Of particular mention is the role we continue to play with our young people. Whether through our local community service as High School Science Fair Judges or through our ASE Scholarship program, our continued activity with our young adults is critically important to our society outreach goals. Only through your active participation, can we continue to positively influence our greatest asset, our youth. Get active, directly through the ASE events, or on your own, in your local community, your office, or at home with your own children or a neighbor in need. It doesn't matter how you serve, as long as you remember to return some of the "wonders of engineering" that others have provided to you. Do you remember a special moment when a senior, a neighbor, a relative stopped to help you out in a time of need. Small actions do make a difference. So I challenge you, make a difference today, give Mr. Gordon McCoy, our Science and Education chairman, a call.

As if our traditional ASE efforts were not enough, we've been asked to taken on an additional duty, organizing the command's celebration of National Engineers Week from 20-26 February. I see no better way for us as engineers and scientists of the Naval Sea Systems Command to "strut our stuff", so to speak, than to take the lead in this critical weeklong series of events for the command. Look for more details soon on the week's events, and if you are interested in helping out . . . well I am sure our chairman, Mr. Jeff Hough would love to hear from you. Remember, small actions do make a difference.

Now, for those who don't know me, a bit about my personal views. I have a simple philosophy that I have followed through my professional career as an engineer and I think it fits nicely into our objectives of ASE as well. It is captured in the following phrase:

“Teach to Learn, Learn to Grow, Grow to Teach”

You will never learn a subject better than trying to teach it to another. The difference between talking about an issue (and the world is full of people, trained or not, willing to talk on any and all subjects) and teaching is rooted in your motivation. Whether it is a technical skill, a simple task, or a

complicated concept, teaching forces one to find new and creative ways to think about and describe a topic to an audience merely to impart knowledge. This activity continues the growth of our profession, growth at the rate of one person at a time whose eagerness on the subject may be completely founded on your ability to create excitement. Continued learning to foster professional growth keeps us as scientists and engineers current with the latest technological advances, the scientific breakthroughs that, with a little engineering, become the products of our growing society. And finally, a responsibility we all have to continue our development for the good of our profession. To become mentors for our fellow scientists and engineers, to pass on our knowledge, our experiences, and our judgments to those that will continue our progress long after we depart.

Teach to Learn, Learn to Grow, Grow to Teach. Yes, I know it works well for me, and I think it fits well with our society’s objectives.

Finally, think of how you would like to become more involved in YOUR society. Is there an issue you would like addressed for the good of us all? Is there a command event you would like to bring our society more closely aligned with? How about providing some of your valuable time volunteering to help out with some of our committee activities? You all have very special talents and YOUR society needs them to continue. Please don’t hesitate to contact any of the committee chairs or an ASE key person if you would like to help out. And please, if you should be called upon by ASE to assist in an area that needs direct attention, I encourage you to seriously consider helping out. For we are a volunteer association that only continues to exist due to the time and effort provided by you, our membership.

NATIONAL ENGINEER’S WEEK 2000

By Jeff Hough

National Engineers Week 2000 will be February 20 - 26, 2000. The National Theme for the week is "Engineering Community Seeks Greater Diversity". For more information on National Engineers’ Week site check out the web site at <http://www.eweek.org>. NAVSEA's National Engineers Week 1999 program was very successful with several activities including lunch time speakers from inside and outside of NAVSEA, and exhibits. This year ASE and SEA 05 are jointly sponsoring National Engineers Week at NAVSEA. As the chair for the NAVSEA's National Engineers 2000 program , I am looking for ideas and activities that NAVSEA engineers and especially ASE members would like to see during the week. If you have ideas and activities, and especially if you also would like to work on the 2000 Program Committee please contact me via e-mail at HOUGHJJ@navsea.navy.mil . Look for future updates of agenda and speakers, including a “Meet the Chief” session.



"Scientists discover the world that exists; engineers create the world that never was."

Programs Update

By Mike Safina

ASE Professional Forum Series
Large Scale Vehicle 2 - CUTTHROAT

On October 21st, CDR Tom Eccles, NAVSEA Program Manager for the Large Scale Vehicle 2 (LSV 2), and Mr. John Lamb, LSV 2 Program Manager from Newport News Shipbuilding, provided a presentation on the status of the LSV 2 program. The LSV 2, named the CUTTHROAT, is the Navy's second large scale submarine test vehicle. CDR Eccles and Mr. Lamb presented an overview of the program as well as an update on the design and construction progress of the CUTTHROAT. The CUTTHROAT will be used to affordably test emerging submarine technologies and conduct experiments leading to full-scale insertion of new technologies with confidence of success. Also included in the presentation was a description of how the CUTTHROAT will be operated as an unmanned autonomous vehicle and how it was scaled to reflect SSN VIRGINIA Class characteristics. CUTTHROAT will incorporate several leading edge technologies, including an radial gap permanent magnet motor for propulsion, electro-mechanical hydraulic actuators for control surfaces, and a fiber-optic reflective memory network for guidance, navigation and control. CUTTHROAT is being built by a two-shipbuilder team of Newport News Shipbuilding and Electric Boat Corporation and will deliver in February 2001.

Watch for news of upcoming programs in the

lobbies and email.



ASE, John J. Nachtsheim
Scholarship Fund
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Science & Education

Update

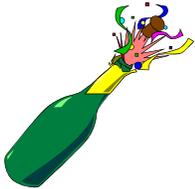
By Gordon McCoy

For the fifth year the Association of Scientists and Engineers (ASE) of the Naval Sea Systems Command is sponsoring a scholarship award(s) for college students in the fields of science, engineering or naval architecture. The award(s) is named for **John J. Nachtsheim** who served as ASE president in 1964-1965.

Contributions to the John J. Nachtsheim Scholarship Fund can be made to:
All funds donated will go toward the scholarship award(s).

Applicants must be an immediate family member of a NAVSEA employee and either an entering or current college undergraduate or graduate student planning a career in science, engineering or naval architecture.

Application requirements and forms will be available in a future edition of the Scientist and Engineer.



Symposium Update

By Billy Douglas

The Thirty - Seventh Annual Technical Symposium and Banquet sponsored by The Association of Scientists and Engineers of the Naval Sea System Command will be Wednesday, 10 May 2000 at the Sheraton Crystal City Hotel, Arlington Virginia. The call for papers for the Symposium requested abstracts by 21 December 1999 and papers by 30 January 2000. (See later article.)



ASNE Update

By Carl Biefeld

The tentative schedule for upcoming events for ASNE Flagship section has some lunches, dinners and even tours of interest to many. ASNE Flagship section is sending out notices by email, so if you're a member and not getting notification by email, provide your email address to ASNE in order to be added to the list.

11 Jan 00 1130, Luncheon Days Inn, "Smart Ship Program" Mr. Glen Sturtevant.
16 Feb 00 1730 Joint SNAME Dinner Days Inn, RADM K. Paige
8 March 00 1130 Lunch Days Inn, "MARITECH Shipbuilding Enterprise
5 April 00 Bus trip & lunch, "Tour of Test Pilot School at Pax River"
13 April 1800, Midshipmen Research Papers at USNA
For Reservations call Andy Rolle at (703)413-3558 Fax 413-9276 or email at andreas_d_rolle@tst.tracor.com .

For more information regarding ASNE see <http://www.navalengineers.org/>.



From the Editor's Desk

By Carl Biefeld

This is the first attempt at an electronic mailing of *The Scientist and Engineer*. So, right away, I'm going to apologize for any glitches. If you've discovered any problems with reading, or using this document, please let me know so I can fix it in upcoming issues. If you know of any ASE members who did NOT receive this mailing, please send it to them and (more importantly) let me know, or have them email me their address. If you have received this by US mail and would like to receive it electronically, please send your email address to: BiefeldCE@navsea.navy.mil and I will see that you are added to the mailing list and that your membership information is updated.

The association is trying to improve its communications. We're looking in to a web site, use of the NAVSEA public Outlook™ folder and have just created a dedicated email address for the association. If you have general questions, wish to volunteer or not sure who to contact regarding a particular subject send an email to: ASE@navsea.navy.mil. We'll see that it gets to the right person. We're always looking for help and new members so spread the word and do your NAVSEA Engineering professional organization a favor!



CALL FOR PAPERS

By Bill Schoenster

Please submit abstracts for the 2000 Technical Symposium: *The NAVSEA Corporation – An Agile Enterprise for Adaptable Ships/Weapon Systems*

Please submit a 1 - 2 paragraph abstract to:
ASE Professional Development Committee Symposium Technical Program, Bill Schoenster

The **deadline** for abstracts is **21 December 1999**. The deadline for papers is 30 January 2000.

ASE
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Send Address changes to the above address or contact:
Carl Biefeld,