



# SE REVIEW



April 2009

Volume 9, Number 4



### Next Board Meeting

5 May 2009  
1630  
Booz Allen  
Hamilton  
Expedition Bldg

### Next Chapter Meetings

23 April 2009  
1130-1300  
Pax River O'Club

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## President's Perspective

Colleagues,

The spirit of collegiality and volunteerism is upon us. I have just had the pleasure of attending the Region V Conference in Suffolk, VA on **"Systems Engineering – Affordable Success"**. Karl Geist from our Chapter was the overall Chairperson for the event and worked tirelessly to orchestrate eight other chapters and numerous Industry partners to make this event happen. The chapters that participated included: Southern Maryland, Hampton Roads, Chesapeake, Atlanta, Central Savannah River Area, Washington Metropolitan Area, Alamo, and Orlando Chapters. Innovative in its strategy to support our current economic climate, the content was broadcasted to three other remote locations for the entire length of the Conference. This allowed for a broader range of participants who could not otherwise participate due to rising travel costs.

All speakers were engaging in their respective topics, including: Systems Engineering leadership; Complexity, Cost, Schedule and Performance; and Green and Other Solutions. Our local Chapter participated in a number of supporting roles, including: John Walker providing a paper on Technical Readiness Levels and Karl Geist providing topical presentations and a tutorial on the Certification Program. Dale Raney also assisted in securing a number of speakers, and it was definitively a team effort. For all that were able to attend, the feedback has been tremendous from the speakers, sponsors and attendees. Assuredly, this will be pursued again as an annual event.

With that in mind, our next big event where multiple hands are needed will be the AUVSI Student UAS Competition, 16-20 June 2009. Please let anyone on the INCOSE Board of Directors know of your willingness to help get involved. We will need help for the entire event, including an evening reception on 16 June that INCOSE hosts for the student teams the day that they arrive.

Note for this month: we have an excellent speaker, Mr. Peter Baxter, from Distributive Management LLC, with the topic **"PUTTING 'MANAGEMENT' INTO YOUR REQUIREMENTS MANAGEMENT"**, which will take place on 23 April from 1130 to 1300 at the Officer's Club.

That's it for this month. Looking forward to seeing you at one of our events. From the Board of Directors, we look forward to your continued support and engagement with INCOSE Southern MD.

Respectfully,

Steve McKeown  
President, Southern Maryland Chapter  
[president@INCOSE-SoMD.org](mailto:president@INCOSE-SoMD.org)

# INCOSE News

## Recognition from the Defense Acquisition University

The Defense Acquisition University (DAU) recognizes the INCOSE CSEP- ACQ certification as meeting or exceeding the desired outcome, content, and evaluation techniques of the DAU courses SYS 101 and SYS 202. Therefore, DAU considers CSEP-ACQ the equivalent to SYS 101 and SYS 202 for all DAU course prerequisites and DoD AT&L acquisition career field certification requirements.

For more information, you are invited to contact Mark Camporini, Director, Academic Programs at DAU (<http://www.dau.mil/>). An INCOSE website link can be found at <http://www.incose.org/educationcareers/certification/csepagrees.aspx>.

## 19th Annual INCOSE Symposium

It is with great pleasure that the Host Committee invites you to participate in the 19th annual INCOSE International symposium. The symposium will be held concurrently with the APCOSE 2009 conference at Suntec Singapore International Convention & Exhibition Centre from 20 to 23 July 2009. The symposium will be opened by the Guest-of-Honour Mr TEO Chee Hean, Singapore's Deputy Prime Minister and Minister for Defence.

This year the event is hosted jointly by the Region VI Chapters of INCOSE, including Australia, Beijing, Japan, Korea, Singapore and Taiwan. This is the first time the symposium will be held in Singapore and in Asia, reflecting the increased importance of systems engineering in this region.

The theme for INCOSE 2009, East Meets West: The Human Dimension to Systems Engineering, highlights the dramatic expansion in the scope of contemporary systems engineering with the integration of the human cognitive dimension. This premier event will feature delegates from the East and the West and give them an opportunity to share and deliberate on the latest systems, engineering developments in education, research and applications. Do not miss this unique opportunity to network, develop and grow partnerships.

As an INCOSE member, you can enjoy the early bird full registration fee of \$805 for an enriching four-day symposium if you sign up by 10 May 2009. The full registration fee from 11 May 2009 onwards will be \$940. Registration for the symposium includes a complimentary APCOSE 2009 registration. The brochure for the Symposium is now available on the website <http://www.incose.org/symp2009/>.

We welcome you to attend and look forward to seeing you in Singapore this July!

## Schedule of *INSIGHT* Deadlines

The following is a list of upcoming INCOSE *INSIGHT* deadlines:

SUBMISSION DATE	PUBLICATION DATE	THEME	THEME EDITOR
15 May 2009	July 2009	The Interplay of Architecture, Systems Engineering, and Security	Rick Dove
3 July 2009	October 2009	East Meets West - The Human Dimension to Systems Engineering	Pearly Chua
15 November 2009	December 2009	Model-Based Systems Engineering: The New Paradigm	Rob Cloutier



### Renew Your Membership

Don't forget to renew your membership. Your annual membership now expires 12 months after your enrollment anniversary. If you want to know what your enrollment date is and when your current membership will expire, just view your member profile <https://www.incose.org/membersOnly/memberInfo/updateMemberInfo.cfm>. Should you have problems or questions, e-mail Central Office (<mailto:info@incose.org>).

### Update your membership profile

Did you know that you have the ability to reset your own password, change your address, phone number and employer, and even change the e-mail addresses you want your incose.org e-mails to go to? Did you know that you can also update your biography and even your picture? To keep your membership information up to date, just go to [www.incose.org](http://www.incose.org). On the left side, select the option to View / Update Member Record.

## Chapter Highlights

### Outreach: *Feature Story!*

#### An Overview of the Spring 09 Conference, Systems Engineering – Affordable Success



The following INCOSE Chapters jointly hosted a highly informative Conference at the Virginia Modeling, Analysis and Simulation Center (VMASC) Facility in Suffolk, VA on 2 – 4 April:

- Southern Maryland
- Hampton Roads
- Chesapeake
- Atlanta
- Central Savannah River Area
- Washington Metropolitan Area
- Alamo
- Orlando Chapters

The plenary speaker for opening day, John Snoderly, Defense Acquisition University (DAU), opened up the event to a group of ~ 100 + attendees to gain valuable insight on where systems engineering is heading in the immediate future. There were three distinct tracks provided, including: Systems Engineering Leadership; Complexity, Cost, Schedule and Performance; and Green and Other Solutions in Systems Engineering. Topics in the leadership track covered: How do cultural differences around the world affect the application of SE? How is information technology / knowledge management enabling or preventing the successful application SE? How has the integration of program management and SE elevated the role of systems engineering? How do you see information engineering affecting systems development? In the Complexity, Cost, Schedule and Performance area, topics included: How do you calculate SE Return on Investment (ROI)? How have the application modeling tools applied to SE affected the system's outcome and performance? How do you successfully deal with cost, schedule, and performance trade-offs in a portfolio management construct? In the Green and Other Solutions area, topics included: What are some SE lessons learned dealing with green solutions? Are there green



## Chapter Highlights (cont.)

modeling techniques which are applicable throughout the world? Do we see new green modeling techniques emerging that apply to SE? What are some lessons learned when applying green solutions? What are you and your organization doing to foster sustainable development, re-use, zero-footprint and zero-emission system development? Day one ended with a nice networking event with the attendees, sponsors, and speakers getting a chance to mingle with good food and drink in a relaxed environment.

Day Two kicked off with Gordon Kranz, Office of Secretary of Defense (OSD), discussing DoD 5000.2 Changes and SE Impacts. His talk was enlightening and engaging and resonated with many of the attendees who make their living in the DoD arena. The three tracks continued, and throughout the entire conference, there were also more in-depth tutorials provided including one on the Certification Process, a deeper dive into Complexity and Complexity Theory, and a mixed topic that included Systems Thinking Strategies for Complex Decision Making Processes coupled with Leadership Strategies. There were also a number of panel discussions that were tied into the main conference themes which provided for robust interaction with the speakers.

Day Three was action packed with the remainder of our presenters providing their individual talks, a number of engaging in-depth tutorials offered, and an inspiring closing discussion given by Kevin Forsberg, Center for Systems Management Inc. (CSM) that re-assessed the current state of the practice and how to effect a sound systems engineering methodology and management construct that will succeed with increasingly complex systems. Special thanks need to go to the overall Conference Chairperson, Karl Geist from the Southern MD Chapter; Joe Krupa and Dave Takacs, Technical Program Chairs; Conference Sponsorship Chairman Tony Giglioli; Treasurer, Sherry McClay; and Technical Advisor, Phil Simpkins who greatly assisted in connecting with the three other remote sites that gained full access to Conference content. The INCOSE SoMD Chapter is looking forward to the next jointly sponsored event!

### **INCOSE Certified Systems Engineering Professional (CSEP)**

In partnership with Reed Integration, Inc., the local chapter of INCOSE is interested in offering a two-day intensive training program for those with a systems engineering background who desire CSEP certification. This course provides an in-depth review of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook version 3.1, which became the basis for the certification exam in July 2008. Participants are expected to utilize the knowledge gained from the tutorial including study tips and sample exam questions to enhance their detailed study in preparation to sit for the exam. Day 1 introduces INCOSE and the CSEP program and covers the main chapters in the handbook, which are organized according to the ISO 15288 Life Cycle Process diagram. Day 2 provides a review of the handbook appendices, which include basics of the systems engineering process from technical management to requirements and architecture. Participants will also be guided through the INCOSE CSEP application process, certification requirements, and the renewal process.

Tuition Fee Includes:

- A hardcopy of the INCOSE Systems Engineering Handbook v3.1
- A bound copy of the tutorial slides
- A pocket guide of sample exam questions
- Lunch

If you are interested in taking this class, we are starting a waiting list now and anticipate offering this in September 2009. The number of students will establish the cost per student, and we anticipate this will be in the \$800 to \$1000 price range. Please contact Steve McKeown at: [Steve.McKeown@INCOSE-SoMD.org](mailto:Steve.McKeown@INCOSE-SoMD.org), or 301-862-7033 if you are interested, and thanks.

## Chapter Highlights (cont.)

### AUVSI Volunteers Needed

We are looking for a few INCOSE members to volunteer to assist with this year's 2009 Student UAS Competition on 17-21 June hosted by AUVSI at St. Inigoes. We are involved in the Registration Process, sponsoring the welcome dinner the first night of the event, and this year we are playing a part in judging the student entrees. If you are interested in participating in some or the entire event, please feel free to contact any of the INCOSE Board members to get involved!

### The Ambassador Ads

Chapter members can discretely place a synopsis of their resume here for distribution throughout the Chapter's contact list to help them find job opportunities. The individual is given a unique number, such as 010709 (date resume submitted), to identify their resume. Anyone interested in their skills can request the full resume with its contact information. The individual will be given the company's request and can contact the company directly. Thus, the individual will remain anonymous in the process. Additionally, companies of Chapter members can place "Want Ads" in the newsletter to help find that "right" employ. The company will also be given a unique number. Here is our first resumé:

**010709:** Principal Systems Engineer has 20 years experience as a project manager for commercial and military projects, which involved both hardware and software development utilizing knowledge and background in systems engineering, software engineering, and management. Experience includes requirements management (CORE), development of infrastructure protection methods and systems, training, hardware test and evaluation, process development, software development, and configuration management. Has BS in Engineering Science, MS in Software Engineering, and Secret Clearance. For more information send email to [president@incose-somd.org](mailto:president@incose-somd.org).

### Member Profile

Please welcome our new member:

**LCDR Joseph Gardiner** joined on 13 April. He is a Propulsion and Power Systems Engineer with NAVAIR. His e-mail is [jandtg@md.metrocast.net](mailto:jandtg@md.metrocast.net), and phone number is (301) 995-7646.

### Member Contributions & Support Needed

We are in desperate need of more help, more involvement, more members, and more leadership from our current members to maintain our ambitious schedule of events. Also please send news on your projects at work, on your personal or professional achievements, any notable upcoming events the membership should know about, etc. Send electronic pictures, too! We continue to request that each of the Chapter members provide us with a brief bio, so everyone will get to know you a little better. This will also make it easier to network with other Chapter members. Please include items such as where you went to school and any degrees, current and past positions, INCOSE activities, and any other information you would like to share. Our newsletter can use your articles and your support. Please send all contributions to Karl Geist at [kgeist@md.metrocast.net](mailto:kgeist@md.metrocast.net), Dawn Jaeger at [Dawn.Jaeger@navy.mil](mailto:Dawn.Jaeger@navy.mil), or Steve McKeown at [mckeown\\_steve@bah.com](mailto:mckeown_steve@bah.com). If you have any questions, please send an e-mail or call Dawn at 301-757-0907, or Steve at 301-862-7033. So, please consider volunteering and being part of the exciting opportunities in Systems Engineering. As current members, the Chapter Board of Directors (BOD) welcomes your feedback to the chapter's plans. Address these comments to any of the Chapter's BOD members found at the end of this newsletter. Thank you!

# Upcoming *Events*

## **7<sup>th</sup> Annual Conference on Systems Engineering Research**

*Hosted by Loughborough University, University of Southern California, and Stevens Institute of Technology*

**When:** 20-22 April 2009

**Where:** Loughborough University, Loughborough, England, UK

**Info:** <http://cser.lboro.ac.uk/>

**POC:** [r.s.kalawsky@lboro.ac.uk](mailto:r.s.kalawsky@lboro.ac.uk)

**Description:** The primary conference objective is to provide practitioners and researchers in academia, industry, and government with a common platform to present, discuss and influence Systems Engineering research with the intent to enhance Systems Engineering practice and education.

## **21<sup>st</sup> Annual Systems & Software Technology Conference (SSTC 2009)**

*Sponsored by United States Army, United States Marine Corps, United States Navy, United States Air Force, and Defense Information Systems Agency (DISA)*

**When:** 20-23 April 2009

**Where:** Salt Lake City, Utah

**Theme:** Technology: Advancing Precision

**Info:** [www.sstc-online.org](http://www.sstc-online.org)

**Cost:** \$895 – Through 22 March 2009

\$995 – After 22 March 2009

**Discounts Available:**

\$100 – Military/Government (must have GS Rating or Equivalent)

\$100 – Paper Reviewer

**Speaker Rate:** \$395/full conference

**POC:** [sstc-info@ext.usu.edu](mailto:sstc-info@ext.usu.edu) or (435) 797-0423

**Description:** The SSTC conference has elaborated on the concept behind the theme: If we look back over the past couple of years, one can conclude we haven't seen huge leaps in new technologies. Programming languages have had some stability. The probability of a new computer language being introduced, similar to the flurry around Ada's initial release, is somewhat low. What we are seeing, as far as recent advancements, are little tweaks to proven technologies which are having the effect of paying large dividends in the areas of performance, cost, schedule, time to delivery, communications, command and control, and weapons targeting, just to name a few. SSTC 2009 will focus on exploring how we, as a community, can affect Systems and Software by fine tuning technology, thus advancing the precision of technology.

Save the Dates! Conference registration opens 5 January 2009. Mark your calendar now and plan to join us for excellent, quality presentations and networking with colleagues from military/government, industry and academia.

## **Southern Maryland Chapter Meeting**

*Hosted by INCOSE SoMD Chapter in Patuxent River, Maryland*

**When:** 23 April 2009, 1130-1300

**Where:** Cedar Point Officer's Club

**Theme:** Putting "Management" Into Your Requirements Management

**Info:** [www.incose-somd.org](http://www.incose-somd.org)

**Speaker:** Mr. Peter Baxter, Distributive Management LLC

**POCs:** Dale Raney at 240-925-3455, [Dale.Raney@incose-somd.org](mailto:Dale.Raney@incose-somd.org) or Steve McKeown at 301-862-7033, [Steve.McKeown@INCOSE-SoMD.org](mailto:Steve.McKeown@INCOSE-SoMD.org)

**Venue:** Buffet

**Cost:** \$5.00 for SoMD INCOSE Chapter members, \$8.00 for Non-members

**Description:** While requirements engineering and requirements tools have become widely adopted, the number of software project failures attributed to poor requirements management remains high. Metrics that focus on requirements engineering are widely available, yet often only the most advanced and mature organizations actually use them. Requirements metrics are key indicators of project scope, growth, stability and progress.

## Upcoming Events (cont.)

Managers who use requirements engineering measures can spot trouble before a software project becomes a death march. By better managing requirements engineering, managers ensure that they deliver a quality product that completely satisfies customer expectations.

The most common requirements engineering challenges faced by typical organizations attempting to manage the software development process are:

- Most requirements engineering tools don't provide a way to establish the number of requirements to be developed, the baseline
- Managers generally have no method for assessing requirements engineering progress against the baseline
- Requirements engineering processes don't quantify the extent and impact of requirement changes on a product
- Managers have no means to monitor and control the flow of requirements from development to design to coding and test

In this presentation, Peter Baxter delivers practical guidance on why and how to measure, and then manage, requirements, including recommended Requirements Management visuals.

### Southern Maryland SPIN Chapter Meeting

*Hosted by SoMD SPIN Chapter*

**When:** 6 May 2009, 1700-1900

**Where:** Frank Knox Building, Room 120

**Theme:** Performance-Based Contracting

**Speaker:** Mike Cameron

**Info:** <http://www.somdspin.org/>

**POC:** Liz Burnett at 301-862-7398, [Liz.Burnett@ManTech.com](mailto:Liz.Burnett@ManTech.com)

**Venue:** Food and Refreshments

**Cost:** Free

**Description:** TBD

### PMI SoMD Chapter Spring All-Day Seminar

*Sponsored by Project Management Institute, Southern Maryland Chapter*

**When:** 20 May 2009, 8:00 am-5:00 pm (earn 7 PDUs)

**Where:** Bay District Vol. Fire Dept. Social Hall 46900 South Shangri-La Drive, Lexington Park, MD

**Theme:** No-Nonsense Advice for Successful Projects

**Speaker:** Mr. Neal Whitten, PMP

**Info:** <http://www.onepmi.org/PMIWeb/default.aspx?compid=1030>

**Cost:** PMI members - \$250; General Public - \$275 (Fee includes seminar, materials, breakfast, lunch and a copy of the book, Neal Whitten's No-Nonsense Advice for Successful Projects)

**POC:** Tanya Bassett, PMI SoMD President, (240) 298-7392, [president@pmisomd.com](mailto:president@pmisomd.com)

**Description:** Popular speaker and best-selling PM author Neal Whitten takes leadership and project management to a personal level by revealing leading-edge best practices that make all the difference between leading consistently successful projects and playing the victim with troubled projects. If you came to Neal and asked, "I only have one day of my life for our paths to cross. What can you tell me from all you have learned from a 35+ year career that will make my projects and career more successful and rewarding?" This workshop is the one day that Neal would share with you. Successful projects — and careers — don't just happen, they are made to happen. Focusing mostly on leadership and soft skills, this thought-provoking seminar reveals choices to make and behaviors to adopt that are invaluable in helping you become a successful project manager and leader. The workshop is based largely on Neal's best-selling book, Neal Whitten's No-Nonsense Advice for Successful Projects. Learn to think for yourself, re-energize your initiative and drive, and take control of your destiny. It's not about the ability of those around you to lead; it's about your ability to lead, despite what is happening around you.

## Upcoming Events (cont.)

### PMI SoMD Chapter Special Evening Event

*Sponsored by Project Management Institute, Southern Maryland Chapter*

**When:** 20 May 2009, Happy Hour 5:30 pm-6:00 pm, Presentation 6:00 pm - 7:00pm  
**Where:** Bay District Vol. Fire Dept. Social Hall 46900 South Shangri-La Drive, Lexington Park, MD  
**Theme:** Eight Dumb Project Management Beliefs  
**Speaker:** Mr. Neal Whitten, PMP  
**Info:** <http://www.onepmi.org/PMIWeb/default.aspx?compid=1030>  
**Cost:** Free for All-Day Seminar Attendees  
(\$10 for Evening Only Participants - includes seminar, materials, and appetizers)  
**POC:** Tanya Bassett, PMI SoMD President, (240) 298-7392, [president@pmisomd.com](mailto:president@pmisomd.com)

### PDE 2009: 11th NASA-ESA Workshop on Product Data Exchange

*Hosted by the Boeing Company*

**When:** 19-23 July 2009  
**Where:** Kent Space Center in Kent, Washington  
**Theme:** Collaboration in a Heterogeneous World  
**Info:** <http://step.nasa.gov/pde2009>  
**POC:** Farrokh Shoar, [Farrokh.F.Shoar@jpl.nasa.gov](mailto:Farrokh.F.Shoar@jpl.nasa.gov)  
**Description:** We continue to build on the heritage of ten highly successful annual workshops, alternating between the US and Europe. Over the years, the workshop scope has evolved from focusing on a number of ISO 10303 / STEP (related) data exchange standards to a broad range of data exchange and data sharing technologies and standards that enable efficient and effective product life cycles (PLM) for complex systems and facilitate collaboration between organizations and disciplines. The program will be similar to previous PDE workshops: an opening evening reception followed by three days of presentations, plenary keynotes and discussions, networking opportunities, and "birds of a feather" meetings. Further information regarding the program will be made available on the workshop website.

### Systems of Systems

*Presented by Honourcode, Inc.*

**When:** 9-11 June 2009  
**Where:** Washington, DC  
**Info:** <http://www.hcode.com/crsinfo-sos.htm>  
**Cost:** \$1,390.00  
**POC:** [BetterSE@hcode.com](mailto:BetterSE@hcode.com), (850) 479-1985  
**Description:** Today's environments are dominated by complex systems of systems. As a result, systems engineers now have the responsibility to create systems of unprecedented scope and complexity. These objectives are not the only challenge. The development environment for a system of systems is typically characterized by its own unique challenges, such as an extended life cycle, requirements to use legacy systems as components, and ongoing re-architecting throughout the lifecycle of the system and its component systems. Success under these conditions requires developing a sound design, managing complexity, maintaining the integrity of that design, and supporting shifting operational priorities over significant time spans while avoiding the lurking potential of chaotic conditions.

To meet these challenges, this course presents detailed, useful techniques to develop effective systems of systems and to manage the engineering activities associated with them.

## Upcoming Events (cont.)

### Second International Systems Symposium

Co-sponsored by: MIT's [Engineering Systems Division \(ESD\)](#) and the [Council of Engineering Systems Universities \(CESUN\)](#)

**When:** 15-17 June 2009

**Where:** MIT, Cambridge, Massachusetts

**Theme:** The Emerging Field of Engineering Systems: Achievements and Challenges

**Info:** <http://esd.mit.edu/symp09>

**POC:** Stefanie Koperniak, [skoperni@MIT.EDU](mailto:skoperni@MIT.EDU)

**Description:** This second Engineering Systems Symposium hosted by MIT will focus on the evolution of engineering systems approaches in research and education. The three-day event will provide attendees with a broad perspective on the latest advances in research, achievements in industry, and future challenges in the field. The June 2009 Symposium will include:

- Presentations and discussions on engineering systems research, education, and practice
- Two days of plenary sessions with speakers from industry and academia; one day of concurrent research paper sessions
- Distinguished speakers including Charles M. Vest, president of the National Academy of Engineering and former president of MIT, and Norman Augustine, retired chairman and CEO of Lockheed Martin Corporation

### 2009 INCOSE International Symposium

*The 19th International Symposium -- Hosted by Region VI Chapters of Australia, Beijing, Japan, Korea, Singapore, and Taiwan*

**When:** 19-23 July 2009

**Where:** Suntec International Convention and Exhibition Centre, Singapore

**Theme:** East Meets West: The Human Dimension to Systems Engineering

**Info:** <http://www.incose.org/symp2009> <http://www.incose.org/symp2009/>

**POC:** ASK International Conference, [is2009@askintlconference.com](mailto:is2009@askintlconference.com)

**Description:** The theme for INCOSE 2009 highlights the dramatic expansion in the scope of contemporary Systems Engineering where the human cognitive dimension is becoming an integral part in the Systems Engineering processes. Future systems, where the machines are designed around the man, will benefit from Systems Engineering best practices and processes. Systems Engineering methodologies have been successfully applied to designing large-scale complex engineering projects that are multi-disciplinary in nature.

### 2010 INCOSE International Workshop

**When:** Late January – early February 2010

**Where:** TBD

**Theme:** Various Committees, Working Groups, and Certification Beta Test

**Info:** <http://www.incose.org/>

**POC:** PCMI, (858) 565-9921

**Description:** The workshop features many committee and working group meetings such as the Certification Working Group, Handbook Working Group, INCOSE Fellows, the Corporate Advisory Board, Certification Advisory Group, Certification Beta Test, etc.

## SoMD BOARD OF DIRECTORS

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