INCOSE

ENCHANTMENT CHAPTER

NEW MEXICO & EL PASO TEXAS

INCOSE is moving towards using Yammer for all communications including local chapters and working groups.

Make sure you have access and are part of the Enchantment Chapter community page.

Tip: Some sites require extra steps to use Yammer on site.

The Enchanted View

May 2023

May is National Pet Month!

May is recognized as being National Pet Month. In a society with pets, such as dogs and cats, systems engineering plays an essential role in ensuring that the pets are healthy, happy, and well-cared for.

Shown here are our chapter president's dogs: Chloe is a 4-year-old Malamute and Hazel is a 4-year-old super Mutt (at least according to the doggie DNA test).

One of the primary areas where systems engineering plays a role in a society with pets is in the design and development of pet care systems. These systems include everything from pet food and water dispensers to automated litter boxes and pet doors. Systems engineers use their expertise to design these systems in a way that makes them easy to use and maintain, while also ensuring that they provide the necessary care and support for pets.

Shown here is our chapter treasurer with her cat Loki who is trying to engineer a nap in the top level of the cat tree.

Another area where systems engineering plays a role in a society with pets is in the development of pet tracking and monitoring systems. These systems use GPS technology to track the location of pets and provide real-time updates to their owners. Systems engineers design these systems to be reliable and accurate, with the ability to operate in a variety of environments and conditions.

In addition to designing and developing pet care and monitoring systems, systems engineering also plays a role in the management and maintenance of these systems. Systems engineers work closely with pet owners, veterinarians, and other

stakeholders to ensure that these systems are functioning properly and meeting the needs of pets. They also develop maintenance schedules and procedures to ensure that these systems are regularly inspected and maintained to prevent malfunctions and ensure their continued operation.

Shown here is our chapter treasurer's cats: Loki and Newman, trying to engineer their way into her husband's duffle bag

Systems engineering also plays a role in the development of pet-friendly environments. Systems engineers work with architects, landscape architects, and other professionals to design and develop spaces that are safe and comfortable for pets. This includes everything from designing outdoor spaces with pet-friendly plants and materials to developing indoor environments that are free from hazards and provide adequate space for pets to move around.

Finally, systems engineering plays a role in the development of pet care education programs. These programs are designed to provide pet owners with the knowledge and skills they need to care for their pets properly. Systems engineers work with veterinarians, animal behaviorists, and other experts to develop these programs, ensuring that they are effective, easy to understand, and accessible to a wide range of pet owners.

In conclusion, systems engineering plays a critical role in a society with pets. From the design and development of pet care systems to the management and maintenance of these systems, systems engineers play a key role in ensuring that pets are healthy, happy, and well-cared for. By using systems thinking and their expertise in complex systems design, systems engineers can make a significant contribution to the well-being of pets and the people who love them.

INCOSE Member Portal

INCOSE has revamped its IT structure. Because of this you will need to re-establish your INCOSE portal login credentials.

PLEASE NOTE: **Everyone** must first Sign Up to connect to the new portal. If you were a previous portal user, your old credentials will no longer work. Please contact INCOSE IT right away if you experience any issues at helpdesk@incose.net.

INCOSE TIPS:

UPDATE YOUR MEMBER INFORMATION

If you started a new job, or moved in the past year, go to www.incose.org, sign in, click on your name and select 'Profile'

1) Review, if needed select 'Edit My Information'
2) Select 'Renew' if membership expires soon

Use your phone to scan it and check it out!

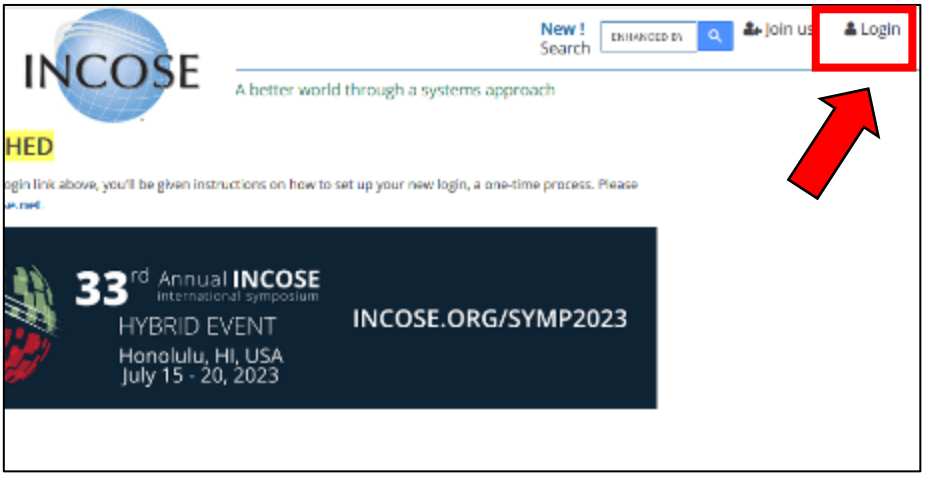
Chapter Website
www.incose.org/enchantment

To re-establish your credentials follow these instructions from our chapter treasurer, Mary Compton:

1. Navigate to https://www.incose.org/

2. Read the information under the banner that reads INCOSE NEW MEMBER PORTAL LAUNCHED.

3. Click on the **Login** link in the upper right corner or the page. INCOSE will display a webpage with instructions on how to set up a new login, which is a one-time process.



4. Read the instructions **before** clicking on the Sign-Up button. The instructions for this process are on this webpage **below** the Sign-Up button. Consider downloading and reviewing the step-by-step guide linked **here**. It is also linked to the webpage.

   NOTE: If you want to use a different email address to login than is on your **current** account, the process will lead you through some steps to verify it's you.

5. The process will consist of two steps and link your new login to your existing INCOSE profile.
   a. Sign up and set up a login account.
   b. Update your INCOSE profile.

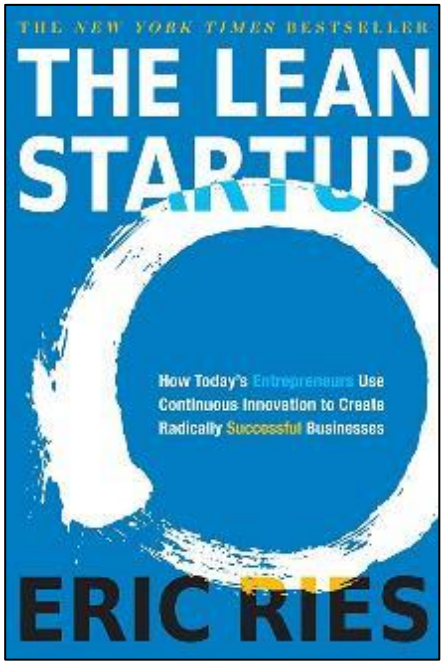
6. Once you have reviewed the information on the webpage you are ready to start the process.

7. Once you are done, log out of INCOSE. INCOSE will re-display the login screen. You may want to log in again with your new credentials to ensure that they work.

If you have any issues setting up your new INCOSE portal login credentials, please contact INCOSE IT at helpdesk@incose.net

Book Club: The Lean Startup

"The Lean Startup" by Eric Ries is a highly acclaimed book that presents a revolutionary approach to starting and managing new businesses. As a systems engineer the book is insightful and relevant to work in the development of complex systems.



The book is based on the Lean methodology, which is a management approach that emphasizes continuous improvement and rapid experimentation. **The Lean Startup methodology is based on the idea that startups should be treated as experiments, and that the key to success is to iterate quickly, test assumptions, and pivot when necessary.**

One of the key concepts presented in the book is the Minimum Viable Product (MVP). The MVP is the simplest version of a product that can be launched in order to test assumptions and gather feedback from customers. This approach allows startups to quickly validate their assumptions and make informed decisions about the direction of their product development.

Another key concept presented in the book is the Build-Measure-Learn feedback loop. This loop involves building a product, measuring its performance, and learning from the results in order to make informed decisions about the direction of the product development. The feedback loop is designed to be repeated continuously in order to rapidly iterate and improve the product.

As a systems engineer, the book is relevant to work in the development of complex systems and R&D projects. The Lean Startup methodology emphasizes the importance of rapid prototyping and iterative development, which is essential in the development of complex systems. The book also emphasizes the importance of

continuous improvement and learning, which is essential in the management of complex systems.

Overall, I would highly recommend "The Lean Startup" to anyone interested in entrepreneurship or the development of complex systems. The book presents a revolutionary approach to starting and managing new businesses that is both practical and insightful. The Lean Startup methodology has the potential to transform the way that we approach complex systems development, and I believe that it is essential reading for anyone working in this field.

ENCHANTMENT EVENTS

CHAPTER MEETINGS

Date: Every 2nd Wednesday each month, Time: 4:45-6:00pm MT
Location: via Zoom
Contact: Ann Hodges, CSEP, ann.hodges@incose.net

INCOSE IS 2023

Register for the 33rd annual INCOSE international symposium. The event will be a hybrid event in Honolulu, HI from July 15th to the 20th. To learn more and register, go to the official event webpage: https://www.incose.org/symp2023.

WESTERN STATES REGIONAL CONFERENCE 2023

INCOSE's premier Western USA Event is coming this September 14-16, 2023 ! We'll be in beautiful wine country located on Pacific Northwest National Laboratory's (PNNL) Discovery Hall. Tours of the Manhattan Project and LIGO kicks off Thursday. The focus is on systems engineering in the energy and critical infrastructure sectors with sustainability and digital engineering as themes. Our keynote comes from the US Department of Energy. For more information go to https://www.incose.org/wsrc/ or contact:

Artis.Riepnieks@incose.net or Susan.Ronning@incose.net

WESTERN STATES REGIONAL CONFERENCE 2024

The Enchantment chapter will be hosting the 2024 WSRC! Keep tuned for more details on volunteer opportunities.

MEMBERSHIP

As a professional society in the field of systems engineering, we recognize the invaluable contributions of our members to our community. Their dedication, knowledge, and expertise have helped us advance the field and drive innovation in complex systems engineering.

ACTIVE CHAPTER MEMBERS:122

CHAPTER CERTIFIED MEMBERS:25%

ASEPs: 11 CSEPs: 18 ESEPs: 2

FUTURE SAVE THE DATE EVENTS

June Event

 June 14, 2023 – 4:45 PM to 6:00 PM MT

Raymond Wolfgang - “Collaboration, Communications and Culture in Systems Engineering: a Pathway to Smoother Projects”

July Events

 July 12, 2023 – 4:45 PM to 6:00 PM MT

Judy Nakamora: “Systems Engineering Hiding in Plain Site at the Albuquerque International Balloon Fiesta”

 July 15 – 20, 2023, Honolulu, HI

INCOSE IS 2023

August Event

 August 9, 2023 – 4:45 PM to 6:00 PM MT

Chris Scully: ““The DOE Phase X and 6.X Processes vs. the System Engineering V Process”

JOBS IN SYSTEMS ENGINEERING

Applying for jobs in systems engineering can be a daunting task, but with the right approach, it can be a rewarding experience. Systems engineering is a growing field, and there are many opportunities available for those with the right skills and expertise.

CURRENT JOB OPENINGS

Sandia National Laboratories

Sandia is hiring systems engineers across many different organizations. Check out their current openings here.

Los Alamos National Laboratory

The Weapons Engineering Directorate needs an energetic, ambitious workforce to drive our growing national security mission. For current openings please visit here.