

### **ISEA Celebrates 1000+ Members!**

In June of this year, ISEA surpassed 1000 members. This is a tremendous feat and the Board thanks each of you for your passion and enthusiasm for this cause. We are heartened to see so many people interested and excited about the Statistical Engineering discipline. As we continue to grow, we're committed to providing value to our members. If you have suggestions and recommendations for how we can serve you better, please reach out to [info@isea-change.org](mailto:info@isea-change.org). Thanks for being part of our community!

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### **Join our Next Webinar!**

Maria Lanzerath, Global Statistics Leader at W.L. Gore & Associates, will be giving our next webinar in September. The details of the talk are included below. The date and time are still being finalized so watch your inbox for a more formal announcement and registration link in the coming weeks.



### **A Case Study of Mixed-Level OMARS Design**

OMARS (orthogonal minimally aliased response surface) designs represent a new class of highly efficient designed experiments with a true potential to combine a screening experiment and a response-surface experiment into just one. This leads to significant savings in time and resources, which can be particularly critical for costly experiments. In the case study that is going to be presented, an OMARS design was used for the development of a chemical product, the validation of a new resin. I will talk through the model and design finding, setup, model analysis for several responses, and the results. The design had eight factors in total, with five of them executed on three levels, and three on two levels, therefore a mixed-level design. In addition, covariates were considered in the analysis.

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### **Keep Up with Previous Webinars**

Note that if you want to watch *any* of our past webinars, you can do so on the [ISEA YouTube Channel](#).

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## Upcoming Conferences and Conference Sessions of Interest



The [2023 Joint Statistical Meetings \(JSM\)](#) are happening August 5-10, 2023 in Toronto, Ontario, Canada. ISEA has organized a Statistical Engineering panel discussion that brings to life a series of discussion papers recently published in *Quality Engineering's* 2022 [Statistical Engineering Special Issue](#). This session is being held on August 7 from 2:00-4:00pm. The details are as follows.

The panel discussion brings together a group of leading applied statisticians from academia, industry, and government to discuss the important movement of Statistical Engineering (SE). Through a series of planned questions from the moderator, and spontaneous questions from the audience, the panel will discuss the unique value added by SE, notable advances, current obstacles, challenges, and opportunities as the discipline continues to grow. The goal of the panel is to inspire statisticians to consider their own possible role in advancing the adoption of Statistical Engineering to solve important problems with high quality solutions.

If you're interested in this session, be sure to register for the JSM. [Registration opened May 1, 2023!](#)



The [ENBIS 2023 Conference](#) is happening September 10-14, 2023 in Valencia, Spain. Geoff Vining has organized a session on Statistical Engineering. This session is being held on September 12 from 2:45-4:15pm. The speaker details are as follows:

- Jeroen de Mast: *Analytical Problem Solving based on Causal, Correlational, and Deductive Models*
- Geoff Vining: *Statistical Engineering: Strategy vs. Tactics*
- Andressa Siroky: *Teaching and Applying Statistical Engineering in Brazil*

If you're interested in this and the many other interesting sessions, be sure to register. See the conference website for more details and to register: <https://conferences.enbis.org/event/32/>.

**Announcements from Friends of ISEA!**



**ASMBI Call for Papers: Special Issue on Digital Twins**

We are happy to announce a “Digital Twins” Special Issue of the journal Applied Stochastic Models in Business and Industry (ASMBI), <https://onlinelibrary.wiley.com/journal/15264025> dedicated to the topical areas featured in the [ENBIS 2023 Spring Meeting on Digital Twins](#). Submissions are not restricted to papers presented at the ENBIS 2023 spring meeting. The aim of this Special Issue is to attract high-quality, innovative, and original works related but not restricted to the below mentioned research fields relevant to Digital Twins:

- Digital Twin development for both the products and processes
- Simulation models for Digital Twins
- Design and Analysis of computer experiments
- Industrial implementation of Digital Twins
- Robustness and optimization through Digital Twins
- Practical applications and cases studies of data analytics using Digital Twins
- Process surveillance and predictive maintenance through Digital Twins
- Decision making through Digital Twins
- Verification and validation of Digital Twins in real life

All submissions will go through the standard, selective review process of ASMBI. Submissions are possible until November, 13th, 2023 through the website <https://wiley.atyponrex.com/journal/ASMB>.