

# Chemical Angel Network



Green  
Chemistry  
Expo

May 26, 2021

Chemical  
Angel  
Network

Investor  
Panel

Resource  
Panel

Agenda

Registration

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## Green Chemistry Expo

# Agenda

May 26<sup>th</sup>

9:00am – 2:00pm Pacific

### Keynote

John Warner

### Panel 1

#### Investing in Green Chemistry

Judy Giordan (Moderator)

- Dow Ventures – Ed Greer
- GC Ventures America – Tina Tosukhowong
- E8 – Molly Shor
- Anzu – Jenna Abelli

### Panel 2

#### Support for Entrepreneurs

Andrew Pasternak (Moderator)

- GC3 – Julie Manley
- ARPA-e – Douglas Wicks
- Techstars – Scott Kraege
- Greentown Labs – Cayman Somerville
- EcosVC - Joseph Steig
- VentureWell – Tricia Compas-Markman

### Company Presentations

Maxterial  
Membrion  
OxbyEl

New Dominion  
IOTA  
Kalion

### Company Presentations

Kintra  
Aquacycl  
Kebotix

Forward Water  
Magnumer  
Advano

# Keynote Address

9:00am – 10:00am



## John Warner

John Warner is one of the cofounders of the field of green chemistry, coauthoring the defining text and articulating the 12 principles of green chemistry with Paul Anastas. John has over 300 patents and 100 publications providing foundational work in the fields of noncovalent derivatization, polymer photochemistry, metal oxide semiconductors and synthetic organic chemistry. John has received prestigious awards as an academic (PAESMEM – President G. W. Bush & NSF, 2004), industrial chemist (Perkin Medal – Society of Chemical Industry, 2014), inventor (Lemelson Ambassadorship – Lemelson Foundation & AAAS) and for governmental chemicals policy (Reinventing Government National Performance Review – Vice President A. Gore & EPA, 1997). He received the American Institute of Chemistry's Northeast Division's Distinguished Chemist of the Year for 2002 and the Council of Science Society President's 2008 Leadership award. Warner was named by ICI Services as one of the most influential people impacting the global chemical industries. In 2011 he was elected a Fellow of the American Chemical Society and named one of "25 Visionaries Changing the World" by Utne Reader. He serves as Distinguished Professor of Green Chemistry at Monash University in Australia. He serves as the Global Chair for the Center for Sustainable and Circular Technologies at the University of Bath. In 2017 the German Ministry of Economic Affairs and The Technical University of Berlin announced the naming of "The John Warner Center for Green Chemistry Start-Ups" in his honor.

# Investing in Green Chemistry

10:00am – 11:00am



## Judith Giordan

Judith Giordan is a co-founder of the Chemical Angels Network ([www.chemicalangels.com](http://www.chemicalangels.com)), Managing Director of ecosVC, Inc. ([www.ecosvc.com](http://www.ecosvc.com)), entrepreneur and former Fortune 100 executive. Judy serves as board member, co-founder, advisor and investor in seed and early stage STEM aligned startups.

Her previous executive positions include Corporate Vice President and Officer/Global Director of Research and Development at International Flavors and Fragrances, Inc.; Vice-President Worldwide Research and Development for the Pepsi-Cola Company; Vice President Research and Development/Corporate Officer, Henkel Corporation, the North American operating unit of the Henkel Group. She has also held management, program leadership and technical contributor positions at Polaroid and ALCOA. Examples of venture leadership start-up and Board roles include Voltage, 1ExecStreet and Qteros.

Judy has served on Boards at the National Research Council and at the National Science Foundation where she has been a member of the Math and Physical Sciences Directorate Advisory Board, Member of the Chemistry Division Advisory Board, Member and Chair of the Waterman Award Committee, Member of External Visiting Committees, and as Program Director for the IGERT Program.

Active in Professional Societies, examples include as a member of the Board of Directors, Committee Chair and Program co-chair at the Industrial Research Institute and the American Chemical Society; a member of the advisory group of and program leader for the Conference Board technical conferences, Educational Foundation Trustee at the Commercial Development and Marketing Assoc., and speaker and program organizer at the Angel Capital Assoc. Judy's honors include ACS Fellow, ACS Garvan-Olin Medalist, ACS Henry Whelan Award for Management Leadership and Alexander von Humboldt Networking Award recipient. Judy has served as theme co-chair for the 2020 ACS National Meeting "Moving Chemistry from Bench to Market".

Judy has a BS in Environmental Science and VoTech Agriculture from Rutgers University; PhD in Chemistry from the University of Maryland; and was an Alexander von Humboldt post doctoral fellow at the University of Frankfurt, Germany.





**Tina Tosukhowang**  
**GC Ventures America**  
**Senior Director**

Tina Tosukhowang is a veteran in the material industry with over 15 years in large petrochemical and startup biotech companies. She currently serves as a Senior Director at GC Ventures America, a corporate venture capital arm of PTT Global Chemical ("GC"). She is responsible for developing the investment thesis and overseeing the entire investment life cycle with primary focus in Cleantech, Advanced Material, Biotech/ Life Science, and Industrial Digitals. Tina holds a Ph.D. in Chemical Engineering and a Certificate in Management of Technology from Georgia Institute of Technology. She is also a graduate of Harvard Business School's Private Equity and Venture Capital program.



**Edward Greer**  
**Dow Ventures**  
**Corporate Technology Scout Ventures and Business Development**

Edward Greer is responsible for finding and evaluating technologies and opportunities that complement Dow's robust Research & Development pipeline and have the potential to contribute to the Company's long-term success. Dow seeks innovations that extract value from the intersection of chemical, physical, and biological sciences to help address many of the world's most challenging problems. Edward earned a B.S. in Chemistry with Honors from UNC-Chapel Hill and his Ph. D. in Analytical Chemistry from the University of Wisconsin-Madison. He holds a Certificate of Professional Development from the Wharton Executive Education program.



**Jenna Abelli**  
**Anzu Partners**  
**Senior Associate**

Jenna Abelli is a Senior Associate at Anzu Partners and focuses on investing in novel chemical and materials platforms, manufacturing processes and devices in life science and industrial sectors. She supports companies in product & marketing strategy, commercialization, and business development. Previously, Jenna was a Senior Product & Brand Manager at Cascade & Maverik Lacrosse, where she led product, marketing, and growth strategy for the women's lacrosse business. Prior to that, Jenna managed tire line development and rubber compound development projects at Continental Tire's R&D center in Hannover, Germany. Jenna holds a B.S. in Chemical Engineering from Tufts University.



**Molly Shor**  
**E8 Angels**  
**Member, Board of Directors**

Dr. Molly H. Shor serves two angel investment groups curating deal flow and conducting deal review, due diligence, and outreach to entrepreneurs. She serves as Co-Chair for Deal Screening and Due Diligence and as a Member of the Board of Directors for E8 Angels, a clean technology angel investment group, and as Clean Technology and Impact Committee Chair for Keiretsu Forum for the Northwest and Rockies regions. Dr. Shor has degrees from Harvard University (AB, applied mathematics), University of Illinois Urbana-Champaign (MS and PhD, electrical engineering), and Oregon State University (MBA, clean technology).

# Entrepreneur Resources

11:00am – 12:00pm



## Andrew Pasternak

Dr. Pasternak has over 24 years of experience directing early-stage technology commercialization and product development activities in a wide variety of fields including chemistry, biotechnology, medical devices, drug discovery, and instrumentation. He has managed multi-disciplined teams in both large and start-up company environments, directing commercial efforts that have resulted in numerous strategic partnerships, high margin service contracts, and licensing agreements. Andrew has broad experience working with both academics and industry personnel, managing intellectual property, establishing collaborations, and advancing early-stage companies to the point where they can raise significant external capital.

In his current role as Director of Commercialization at GreenCentre Canada, Dr. Pasternak has managed multi-million dollar federal and provincial programs that assist entrepreneurs to commercialize their chemistry and material related innovations. These programs have assisted over 100 CleanTech companies and enabled them to raise over \$230M. Previously, he directed research and commercialization at MDS Sciex, Covalon Technologies, MDS Proteomics/Protana/Optimol, and Transition Therapeutics.

Dr. Pasternak is co-editor of an upcoming book to guide the entrepreneur through the commercialization process. "How to Commercialize Chemical Technologies for a Sustainable Future" will be published by John Wiley & Sons in late spring this year. The book covers practically every aspect of establishing new sustainable businesses, including financing, strategic partnering, intellectual property, marketing, regulatory, scale-up, and operationalization.

Andrew is an accredited Professional Director and serves as a Board member for Forward Water Technologies, Mirexus Biotechnologies (observer), and the Science Teachers Association of Ontario.

Dr. Pasternak has a Ph.D. and M.S. (Northwestern University) and B.S.E (University of Michigan) in biochemical engineering, as well as an MBA from the Rotman School of Business (University of Toronto).





**Julie Manley**  
**Green Chemistry & Commerce Council (GC3)**  
**Director of the GC3 Startup Network**

Julie Manley is Director of the Green Chemistry & Commerce Council (GC3) Startup Network and Principal of Guiding Green LLC, a consulting firm focused on meeting business needs by designing for sustainability. She builds on her 20+ years of industry and consulting experience to help integrate sustainable solutions into the marketplace through program management, strategic alliance building, and technical services. Julie earned a Bachelor of Arts from Northwestern University and a Master of Public Health in Environmental Health Science from the University of Michigan. She is also a Certified Hazardous Materials Manager and LEED Accredited Professional.



**Douglas Wicks**  
**Advanced Research Projects Agency-Energy (ARPA-E)**  
**Program Director**

Dr. Douglas Wicks' focus at ARPA-E is on waste-to-energy technologies. Wicks joins ARPA-E from Imerys, a French industrial minerals production and processing company, where he was the Director of Transformational and External Innovation. At Imerys, he developed an innovation network comprised of academic, contract research organizations, start-ups and strategic partners. Dr. Wicks began his career at Bayer Corporation, where he ultimately became Vice President of Research for the Coatings and Colorants division. Wicks earned a B.S. in Chemistry from North Dakota State University and a Ph.D. in Polymer Science and Engineering from the University of Massachusetts Amherst.



**Scott Kraege**  
**Techstars**  
**Managing Director**

[Scott Kraege](#) is an entrepreneur, advisor and investor based in Indianapolis, IN. He currently is Managing Director for [The Heritage Group Accelerator powered by Techstars](#) and is an Operating Partner at [High Alpha Venture Studio](#). Techstars and The Heritage Group formed a specialized accelerator program team and is looking for companies that share a passion for tackling society's biggest challenges. Scott is a passionate entrepreneur who has founded and scaled companies since 2000 by bootstrapping and raising over \$40M in growth capital.



**Cayman Somerville**  
**Greentown Labs**  
**Chief of Staff**

Cayman Somerville is the Chief of Staff at Greentown Labs, the largest climatetech incubator in North America. As Chief of Staff, Cayman works closely with the executive leadership of Greentown Labs to keep the company, its startups, and its stakeholders aligned. During her last six years in the cleantech industry, she has gained experience in new venture development and mentorship, taken on leadership roles in diversity and inclusion groups, and held different cross-functional roles in operations, business development and executive leadership. In her free time, she loves to travel (when COVID-19 permits it again), eat good food, read books, support local farmers markets, and inspire and mentor cleantech entrepreneurs.



**Joseph Steig**  
**EcosVC**  
**Director**

Joseph Steig has extensive experience as a COO/CFO for investors and entrepreneurs. He has worked in a diverse range of industries, from agriculture to software including as CFO at [LRVHealth](#), a seed and early stage venture fund. Joseph has managed over 15 accelerator programs for startup entrepreneurs in agriculture, cleantech and other sectors. This is the main focus of his work, as Director at [ecosVC](#) where he works to develop curriculum and deliver programs for STEM innovators and entrepreneurs.

Joseph serves as a board member of [FORGE](#), the educational non-profit affiliated with the world's largest cleantech incubator, [Greentown Labs](#) and as consulting CFO to [Standard Biocarbon Corporation](#).



**Tricia Compas-Markman**  
**VentureWell**  
**Program Officer**

Tricia Compas-Markman is a Program Officer for VentureWell's early-stage innovator programs ranging from supporting teams in initial customer discovery to investment readiness. Previously, Tricia was the founder and CEO of DayOne Response, Inc., a startup focused on providing clean drinking water solutions to vulnerable communities. Tricia received her BS in Civil Engineering and MS in Civil/Environmental Engineering from California Polytechnic State University, San Luis Obispo. She is based in Oakland, CA and enjoys being outside hiking, backpacking, and kayaking with her husband and two children.



# Company Presentations Cohort 1

12:00pm – 1:00pm



**Mehdi Kargar, PhD**  
**CEO and Co-Founder**

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Funded by Saint Gobain and Peter Thiel foundation, Maxterial reduces the use of highly toxic chemicals such as hexavalent chromium, cadmium and cyanide through the development of novel, durable, corrosion resistant, low cost and high-performance coating technologies.



**Greg Newbloom**  
**CEO & Founder**

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Membrion manufactures and sells ceramic ion exchange membranes that lower the energy and cost of desalinating water



**Edward D. Ricci**  
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OXbyEL Technologies is commercializing the electrolytic technology to economically destroy the health hazards PFAS and other co- pollutants in water and wastewater.



**NEW DOMINION**  
**ENTERPRISES INC.**

**Jay Fraser**  
**President**

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New Dominion Enterprises Inc. is now expanding its commercialization of a novel inorganic liquid material as a safe replacement for the vulnerable organic electrolytes in lithium-ion batteries resulting in a safer, more durable and potentially more energy dense cell.



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Iota cleans your air to the atomic level using photocatalytic destruction capable of addressing VOCs, odors and viruses.



**Darcy Prather**  
**CEO**

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Kalion is an industrial biotech company providing low-cost access to high-purity glucaric acid using green, fermentation technology, providing solutions with economic and environmental benefits.

# Company Presentations Cohort 2

1:00pm – 2:00pm



**Alissa Sandra Baier-Lentz**  
Co-Founder and COO

**30 Under 30 Honoree**  
Retail / E-Commerce 2018 ([Forbes](#))  
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Kintra is a materials science company that provides apparel brands with performance oriented, 100% bio-based and compostable fibers.



**Howie Honeyman**  
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Forward Water Technologies enables cost effective water reclamation using forward osmosis





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Magnum produces magnetizable inks for enhanced recycling.



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**KEBOTIX**

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Kebotix combines data and AI with robotics to discover and create green chemicals and advanced materials at a faster rate and at the push of a button.



**ADVANO**

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