



A GC3 Workshop on

Leveraging Partnerships to Accelerate Green & Bio-based Chemistry Innovation

Hosted by: **LEVI STRAUSS & CO.**

February 1, 2017

Levi Strauss & Co. Headquarters

San Francisco, CA

GC3 GREEN CHEMISTRY &
COMMERCE COUNCIL

Meeting Overview

Partnerships between innovative startups and larger, more established companies are essential to enable the commercialization and successful market adoption of new green and bio-based chemistry technologies. In this workshop, we are bringing together startups and established chemical and material suppliers; consumer product companies and brands; retailers; and investors to:

- Discuss and identify best practices for creating successful partnerships between startups and large companies
- Learn about innovative new green and bio-based chemicals, materials and products
- Provide insights on strategic needs, interests, and directions of larger companies to inform startups' R&D and applications priorities

LEVI STRAUSS & CO.

Levi Strauss & Co. is very pleased to host the GC3's workshop on Leveraging Partnerships to Accelerate Green & Bio-based Chemistry Innovation and to support the GC3 in their mission to mainstream green chemistry. LS&Co. has long been committed to responsible chemicals management and to driving sustainable progress within the apparel industry. In 2000, it was one of the first companies to establish a Restricted Substances List. LS&Co. was also the first company to set EPA-level standards for the wastewater leaving its supplier factories. Today, the company is an active member of the ZDHC and has introduced its pioneering Screened Chemistry program, which takes a hazard-based approach to chemicals in the supply chain.

About the GC3

The [Green Chemistry & Commerce Council](#) is a cross sectoral, business-to-business network of companies and other organizations working collaboratively to accelerate green chemistry across sectors and supply chains. Started in 2005, the GC3 has over 100 [members](#) from leading companies and other organizations.

Agenda

Schedule & Panelists

- 8:00 am Breakfast and Registration
- 8:30 am Welcome from the GC3 & Overview of the Day
Monica Becker, Co-Director
- Welcome from Levi Strauss & Co.
Michael Kobori, Vice President, Sustainability
- 9:00 am **Discussion & networking at your table**
- 9:30 am **Panel** – Partnering, Investing & Strategic Technology Needs: Insights from Along the Value Chain
- Steve Hahn**, Research Fellow, Dow Chemical
Dale McIntyre, VP Innovation and New Product Development, Behr Paints/Masco Coatings
Chris Uecker, Sr. Scientist, Product Design and Development, Target
- Moderator: **Ann Blake**, Founder & Principal, Environmental & Public Health Consulting
- 10:30 am **Networking Coffee Break**
- 11:00 am **Panel** – Lessons Learned from Real Partnerships
- Kaj Johnson**, Sr. Director, Product Development, Method
Tess Fennelly, Global Business Development, GFBiochemicals
Una Murphy, Sr. Designer, Product Innovation, Levi Strauss & Co.
Stacy Flynn, CEO & Co-Founder, Evrnu
- Moderator: **Marty Mulvihill**, Co-Founder & Partner, Safer Made
- 12:00 pm **Networking Lunch**

- 1:30 pm **Panel** – Successes and Challenges of Partnering: Perspectives from Startups
- Christian Schimper**, Managing Director, Research, Acticell
Tim Staub, Global VP Business Development, Green Biologics
Rey Banatao, CEO, Connora Technologies
Tom Boussie, Co-Founder & VP Corporate Development, Rennovia
- Moderator: **Peter Matlock**, Director, Technology Commercialization, Joint BioEnergy Institute
- 2:30 pm **Small Group Discussions & Networking – What makes partnerships work?**
- 2:30 – 3:30 Group discussions on types of partnerships
- 3:30 – 4:30 Discussion leader panel – report back and Q&A
- | Group Discussion Topic | Discussion Leaders |
|--------------------------------|---|
| Joint Development | Brendan Boyd
Director, Additives, External Innovation, Eastman Chemical Co. |
| Corporate Venturing | Matt Dwyer
Director of Materials Innovation & Development, Patagonia |
| Venture Capital Funding | Doug Cameron
Research Leader and Innovator, First Green Partners |
- 4:20 pm Wrap-up and Next Steps for the GC3 Green & Biobased Chemistry Startup Network
- 4:30 pm **Networking Reception**
- 6:30 pm Workshop ends

About the GC3 Startup Network

The [GC3 Green & Bio-based Chemistry Startup Network](#) is dedicated to accelerating the development and market adoption of green chemistry technologies by supporting the growth of green and bio-based startup companies. Leveraging the diversity of the GC3 membership, we are connecting startups and small companies with established chemical suppliers, brands, retailers, and investors who can serve as strategic partners to accelerate the development and growth of promising green and bio-based chemistry technologies. Established companies can tap into the startup network to identify new, strategic technologies, potential partners and investments.

Startup Network Steering Committee Members

Derek McPhee, Senior Director, Technology Strategy, Amyris
Sandy Marshall, Executive Director, Bio-industrial Innovation Canada
Rey Banatao, CEO & **Ian Legaspi**, Director of Operations, Connora
Joel Stone, President, ConVergInce Advisers
Doug Cameron, Co-President & Director, First Green Partners
Molly Morse, CEO & **Anne Schauer-Gimenez**, VP of Customer Engagement, Mango Materials
Lee Walko, Biobased Business Development Manager, Omnitech International
Duncan Cross, Vice President, Corporate Development, Renmatix
Adrian Horotan & Marty Mulvihill, Partners, Safer Made

GC3 Startup Network Staff

Monica Becker, Co-Director & Innovation Group Lead
Laura Hoch, Technical Fellow
Joel Tickner, Director

For more information about the GC3 Startup Network, please visit our website at: www.greenchemistryandcommerce.org/projects/startup-network

Startup Companies



Acticell

Christian Schimper, CEO
Juergen Jelly, Partner, Strategy & Finance

Acticell is an innovative research company which develops environmentally friendly chemicals for the textile industry. www.acticell.at



Aequor

Cynthia Burzell, Founder, CSO
Marilyn Bruno, CEO

Aequor's library of green chemicals control bacteria by preventing biofilm formation, removing existing biofilm, and/or killing the target pathogen. www.aequorinc.com



Amyris

Corbin Johnson, Business Development Manager
Derek McPhee, Senior Technical Director

Amyris develops and manufactures a wide variety of renewable chemicals using low-cost fermentation technology. www.amyris.com



AOBiome, LLC.

Larry Weiss, Chief Medical Officer

Transforming human health through the restoration of Ammonia Oxidizing Bacteria. aobiome.com



Citrine Informatics

Gregory Mulholland, CEO

Citrine Informatics is the information platform for materials and chemicals development, manufacturing, and design.

www.citrine.io



Connora Technologies

Rey Banatao, CEO

Connora provides proprietary functional materials that improve cost, performance, and sustainability for our customers' manufacturing processes and products.

www.connoratech.com



Elevance Renewable Sciences

Rusty Pittman, VP, Business Development & Marketing
Steve Cohen, Director, Synthesis & Catalysis

Elevance Renewable Sciences, Inc. creates novel, high-performing specialty chemicals from renewable feedstocks using a proprietary Nobel Prize-winning technology called olefin metathesis.

www.elevance.com



Evrnu

Brian Howe, VP Strategic Partnerships
Cheri Buell, VP Product Creation
Stacy Flynn, CEO & Co-Founder

Evrnu, a textile technology company and custom R&D lab that creates regenerative fiber from waste.

www.evrnu.com



GF Biochemicals

Tess Fennelly, Global Business Development

GF Biochemicals is the first company to produce levulinic acid and its derivatives directly from biomass at commercial scale.

www.gfbiochemicals.com



Green Biologics

Tim Staub, Global VP Business Development

Green Biologics is a renewable specialty chemicals company focused on producing high performance green chemicals used in myriad consumer and industrial formulated products.

www.greenbiologics.com



Grow Bioplastics

Tony Bova, CEO and Co-Founder

At Grow Bioplastics, our vision is to dream, design, and deliver biodegradable, biobased plastics from plants and agricultural waste materials.

www.growbioplastics.co



Grow Plastics

Mike Waggoner, Founder

Grow Plastics makes lightweight, green, low cost materials for packaging and high tech applications.

www.growplastics.com

KALION, INC.

Kalion, Inc.

Darcy Prather, President

Kalion provides access to high purity glucaric acid from renewable resources for a wide range of applications.

www.kalioninc.com

LYGOS

Lygos

Eric Steen, CEO

Matt Tobin, VP, Program Development

Lygos creates biotechnology solutions for microbial engineering, fermentation, and process development for cost-advantaged production of high value industrial chemicals.

www.lygos.com



Mango Materials

Anne Schauer-Gimenez, VP of Customer Engagement

Molly Morse, CEO

Mango Materials produces affordable, biodegradable materials from the greenhouse gas, methane.

www.mangomaterials.com



Mimikai

Stephanie Watson, Founder

Mimikai is building a brand of innovative, effective, non-toxic insect repellents. Inspired by nature's genius, designed for you.

www.mimikai.com



MOTHERDIRT

Mother Dirt

Nyree Bekarian Mack, Product Safety Manager

Mother Dirt is a company whose mission is to restore good bacteria to the skin and rebalance the skin microbiome with simple plant-derived products, containing 10 ingredients or less.

www.mothersdirt.com



P2 Science

Neil Burns, CEO

P2 is a renewable specialty chemical company with proprietary process, product and applications technology.

www.p2science.com



Paxymer AB

Amit Paul, Managing Director

Paxymer is a novel, green, halogen-free flame retardant system for polyolefin plastic designed for both environment and industry.

www.paxymer.se



Renmatix

Jeremy Austin, Director, Business Development

Leading converter of 2nd generation biomass to cellulosic sugars and bio-building blocks for chemicals, materials, and food applications.

www.renmatix.com



Rennovia

Tom Bousie, Co-Founder & VP Corporate Development

Rennovia focuses on development of novel catalytic processes for the production of cost-advantaged bio-based chemicals.

www.rennovia.com



Resinate Materials Group

Brian Chermiside, CEO & President
Kris Weigal, Chief Commercial Officer

Resinate is committed to pioneering the use of recycled content to create high-performance polyol solutions.

www.resinateinc.com



Stony Creek Colors

Sarah Bellos, CEO

Plant-derived colorant solutions for the textile industry. Bringing high performance color to fashion brands with authenticity and transparency.

www.stonycreekcolors.com



SusTerea Bio LLC

Robert Johnson, Senior Scientist

Sustainable biobased aromatics for greener preservatives and antimicrobials.

www.susterea.com



Zymergen

Hubert Chaperon, Director of Materials Strategy
John McNamara, Technical Project Manager
Nicole Ricapito, Scientist
Richard Pieters, President, Products

Zymergen is a technology company engineering biology predictably, reliably, and to a level of performance previously unattainable.

www.zymergen.com

Large Companies



3M
Maureen Kavanagh, Technical Manager,
Corporate Research Materials Laboratory



Apple
Rob Guzzo, Senior Manager, Environmental
Technologies
Mike Werner, Manager, Environmental
Technologies



Babyganics
Robin Forbes, VP, Product Development



BEAUTYCOUNTER

Beautycounter, LLC
Nicole Acevedo, Ph.D., Science Director



Covestro
Bob Saunders, Head of Textile Coatings,
NAFTA



DSM
Greg McParland, Investment Manager, DSM
Venturing



The Dow Chemical Company
Steve Hahn, Research Fellow, Ventures &
Business Development



Eastman Chemical Company
Brendan W. Boyd, Director, External
Innovation, Coatings and Specialty Fluids



Levi Strauss & Co.
Jean Arquines, Innovation Projects, Eureka
Innovation Lab
Jennifer Benefiel, Technical Lead, Chemical R&D
Linda Gallegos, Eureka Innovation R&D
Michael Kobori, VP, Sustainability
Josef Lukan, Senior Manager, Global Policy &
Advocacy
Una Murphy, Sr. Designer, Product Innovation
Lucy Shertz, Project Coordinator
Megan Wood, Innovation Developer



Masco Coatings Group
Dale C. McIntyre, VP, Innovation and New
Product Development
John Gilbert, Chief R&D Officer



Mrs. Meyer's Clean Day

Allyce Gilligan, Sr. Associate, Chemistry



Patagonia

Matt Dwyer, Director, Materials
Innovation & Development



People Against Dirty

Kaj Johnson, Green Chef



Schülke & Mayr GmbH

Linda Sedlewicz, Country Manager



Seventh Generation

Clement Choy, Sr. Director R&D



Target

Chris Uecker, Sr. Scientist, Product Design &
Development



VFC

Abolfazl Aghanouri, Material Researcher,
Global Innovation Center

Investors



ecosVC, Inc.

Judy Giordan, VP, Managing Director



Ecosystem Integrity Fund

Geoff Eisenberg, Principal



First Green Partners

Doug Cameron, Managing Director



Safer Made

Adrian Horotan, General Partner
Marty Mulvihill, Co-Founder & Partner

Other Organizations



Bioindustrial Innovation Canada

A.J. (Sandy) Marshall, Executive Director

C&A Foundation

C&A Foundation

Amanda Cattermole, Environmental Consultant



Environmental & Public Health Consulting

Ann Blake, Founder & Principal



Iowa State University

Peter Keeling, Innovation Director, Center For Biorenewable Chemicals (CBiRC)



Joint BioEnergy Institute

Peter Matlock, Director, Technology, Commercialization

Aindrila Mukhopadhyay, VP, Fuels Synthesis



Newman Anouvair LLC

Ron Newman, President



GREEN CHEMISTRY & COMMERCE COUNCIL

The GC3 Green & Bio-based Chemistry Startup Network is dedicated to accelerating the development and market adoption of green chemistry technologies by supporting the growth of green and bio-based chemistry startup companies.

If you have any questions, please contact **Monica Becker** (monica@monicabecker.com) or **Laura Hoch** (laura_hoch@uml.edu)

For more information about the GC3, please visit our website at www.greenchemistryandcommerce.org