GREEN CHEMISTRY & COMMERCE COUNCIL
Business Mainstreaming Green Chemistry

GC3 Innovation Project Group

GC3 Collaborative Innovation Project: Preservatives in Personal Care Products

Sept. 22, 2014

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Agenda:

- Background on GC3 Innovation Project Group
- Introduce new project
- Discussion & recruit members for project team

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GC3 Innovation Project Group: High-Level Goals

- To advance Green Chemistry innovation
  - In our own organizations
  - In the broader industrial and academic communities
- To accelerate the development and adoption of safer chemicals and materials

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2013/2014

Webinars:

GreenCentre Canada

ACS Chemistry for Life®

INNOCENTIVE®

Models for Innovation:

- Crowd-sourcing
- Collaborative R&D w/in sectors
- Academic/Industry Partnerships
- Scale-up, commercialization, venture creation @ GreenCentre

Articles:

Rountable Workshop:

Promoting Green Chemistry Innovation Workshop

InnoCentive will deliver an interactive workshop on challenge-driven innovation.

Panelists
Monica Becker, GC3
Steve Domeck, InnoCentive
Homer Swei, Johnson and Johnson

9th Annual
GC3 GREEN CHEMISTRY & COMMERCE COUNCIL
Innovators Roundtable
MAY 28–30 2014
St. Paul, Minnesota
Hosted by 3M

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2014/2015

More webinars on innovation

GC3 Innovation Portal
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Vinyl This topic area contains discussions, articles on vinyl resin can linings Moderators: Admin	0 Topics	0 Replies	No Posts
Additives This topic area contains discussions, articles, etc. on additives for can linings Moderators: Admin	1 Topics	0 Replies	Last Post: looking for a techni ... by Jane123 3 weeks 5 days ago
Alts to perfluorinated water & oil repellents for textiles This category will hold discussions, articles etc. on the topic of alternatives to perfluorinated water, oil, stain repellents. There are subcategories for specific technologies.			
Paraffins Moderators: Admin	0 Topics	0 Replies	No Posts
Dendrimers Moderators: Admin	1 Topics	0 Replies	Last Post: Performance test res ... by Admin 4 months 23 hours ago
Silicone Moderators: Admin	0 Topics	0 Replies	No Posts

GC3 Collaborative Innov. Project: Preservatives in Personal Care Products

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New Project: Collaborative Innovation Pilot Project

Goals:

To develop new collaborative models for sectors/supply chains to accelerate innovation of safe and effective technologies, in areas of common need and interest

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Why focus on preservatives in personal care products?

Regulatory bans/restrictions & consumer/NGO pressure continue to reduce the palette of preservatives that formulators are using in personal-care products -- of approx 64 registered preservatives, only about 16 are commonly used.

> Concern that too few effective preservatives are now used in products that require microbial control, which can lead to overexposure to a small number of preservatives in multiple products causing increased sensitization and allergic reactions

Growing concern among brands and retailers about the availability of safe and effective preservative alternatives.

> Brands and retailers' interest in a GC3 collaboration to help expand the pool of safe and effective options

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Proposed Project Phases:

1. Form project team to meet by teleconference

Roles:

GC3 Staff	Conveners, facilitators, leg-work
GC3 Members	Involved in project group to help steer/provide input on the project
Other strategic companies/orgs	To be added to provide additional knowledge and perspectives from the supply chain, government, NGOs

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Proposed Project Phases :

2. **Understand the landscape, re: preservatives in PC products, including:**

    - Why is pool of “acceptable” preservatives shrinking?
    - What is regulatory landscape, re: preservatives in PC products?
    - What are the barriers/risks/major costs for companies that are in a position to develop new technologies?
    - What could help/motivate companies to develop new technologies?

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Proposed Project Phases:

3. **Identify range of possible solutions, which could include:**

    - New, safe preservatives
    - Inexpensive dispenser designs that prevent product from becoming contaminated during use
    - Putting anti-microbials in packaging material rather than product
    - Preservatives not in wide use or used in another sector/application

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Proposed Project Phases:

4. Determine how we can have an impact

- Catalyzing research into new technologies
- Assessing promising, emerging technologies
- Catalyzing enabling research that can lead to new technologies, e.g.,
  - New mechanisms for controlling microbes
  - New methods to test for safety of anti-microbials
- Facilitating a “market guarantee” to encourage scale-up of a promising technology

In consideration of many issues, including:

- Competitive vs. pre-competitive
- Intellectual property (IP) – No IP? Some IP? Who will get it?
- Time frame for new technology R&D
- Our ability to define and assess what is safe, in early stages of development

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Proposed Stages:

5. **Determine how best to pursue one or more solutions, which could include:**

   - Sponsoring a challenge competition
   - Sponsoring a Request for Solutions (RFS)
   - Identifying and sponsoring an entity (academic, private research org., manufacturer) to do research or testing, (non-competitive process)
   - Leveraging relationships for testing
   - Leveraging government R&D dollars

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Questions for Discussion:

- Are there other models where this has been done?
- Where will we face roadblocks?
- Who do we need at the table?
  - Companies, academics, gov agencies, ngos?

Interest in being on Project Team?