

# Schedule

## MONDAY, AUGUST 31: PLENARY SESSION 1

09.00 am – 10.30 am

## COFFEE BREAK AND POSTER SESSION

10.30 am – 11.00 am

## MONDAY, AUGUST 31: PLENARY SESSION 2

11.00 am – 12.30 pm

## LUNCH, POSTER SESSION || THEMATIC LUNCH SESSION BY [avniR]

12.30 pm – 02.00 pm

### OPENING CEREMONY

LOCATION: AMPHI A

MODERATOR: GUIDO SONNEMANN, ISM - CYVI - UNIVERSITY OF BORDEAUX

08.00 am Doors open

09.00 am **Joint introductory speech**  
Guido Sonnemann, ISM - CyVi - University of Bordeaux  
Manuele Margni, Ciraig, Polytechnique Montréal  
Naeem Adibi, [avniR] by cd2e

09.15 am **Short welcome statements from host organizations**  
Olivier Homolle, President of Chemical Society of France (SCF)  
Philippe Garrigues, Director of Institute of Molecular Sciences (ISM)  
Representatives of University of Bordeaux, Bordeaux INP and CNRS  
Christian Traisnel, Director of cd2e - [avniR] - TEAM<sup>2</sup>

09.30 am **Welcome speeches**  
Ségolène Royal, Minister for Ecology, Sustainable Development and Energy (tbc)  
Alain Rousset, President of Aquitaine Region  
Representative from Nord-Pas de Calais Region

10.00 am **Circular Economy and Environmental Footprint: Squaring the circle between sustained profitability and credible environmental sustainability**  
Hugo-Maria Schally, Head of Unit, Directorate General Environment, Eco-innovation and circular economy at European Commission

10.10 am **Scaling up Sustainable Consumption and Production through Life Cycle Thinking**  
Llorenç Mila i Canals, Programme Officer, Division of Technology, Industry and Economy at UNEP

10.20 am Discussion



## ENHANCING COLLABORATION AND COMMUNICATION TOWARDS MAINSTREAMING LCM

LOCATION: AMPHI A

MODERATOR: JAMES FAVA, THINKSTEP AND FSLCI

- 11.00 am Welcome**  
James Fava, Chief Sustainability Strategist at thinkstep and Chair, Executive Committee, Forum for Sustainability through Life Cycle Innovation (FSLCI)
- 11.10 am BASF perspective**  
Peter Saling, Director Sustainability Methods at BASF
- 11.20 am WBCSD perspective**  
Peter White, Chief Operating Officer at WBCSD
- 11.30 am WULCA perspective**  
Anne-Marie Boulay, WULCA Project Manager at CIRAIG - Ecole Polytechnique de Montreal
- 11.40 am FICCI perspective**  
Sanjeevan Bajaj, CEO of the Quality Forum of the Indian Chambers of Commerce and Industry (FICCI) and President of the Forum for Sustainability through Life Cycle Innovation (FSLCI)
- 11.50 am FSLCI perspective**  
Martina Prox, Head of Marketing and Sales at IFU and Vice President of the Forum for Sustainability through Life Cycle Innovation (FSLCI)
- 12.00 pm Discussion**

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# Schedule

MONDAY, AUGUST 31

02.00 pm – 03.30 pm

COFFEE BREAK AND POSTER SESSION || LCiP AWARDS

03.30 pm – 04.00 pm

## MAINSTREAMING LCM IN PUBLIC POLICY - I

LOCATION: AMPHI A

CHAIRS: HUGO-MARIA SCHALLY, EUROPEAN COMMISSION  
CLARE BROADBENT, WORLD STEEL ASSOCIATION

02.00 pm **Mainstreaming EU product policies: Potential advantages and disadvantages**

CARL JOHAN DALHAMMAR<sup>1</sup>, Tomohiro Tasaki<sup>2</sup>

<sup>1</sup>Lund University, Sweden; <sup>2</sup>NIES, Japan

02.15 pm **Product Environmental Footprint – Development of the T-shirt PEFCR**

SANDRINE PESNEL<sup>1</sup>, Jérôme Payet<sup>1,2</sup>

<sup>1</sup>CYCLECO, France; <sup>2</sup>Ecole Polytechnique Fédérale de Lausanne, Switzerland

02.30 pm **Generating road transport sector LCI data set for policy decision support: A Sri Lankan case study**

CHALAKA FERNANDO, Ajith de Alwis

University of Moratuwa, Sri Lanka

02.45 pm **German Environment Agency's Minimum Requirements on Packaging LCAs**

BENEDIKT KAUERTZ, Andreas Detzel

IFEU Institut für Energie- und Umweltforschung Heidelberg, Germany

03.00 pm **An International Survey on the Cost of Product Category Rules and Environmental Product Declarations**

TOMOHIRO TASAKI<sup>1</sup>, Koichi Shobatake<sup>2</sup>, Kenichi Nakajima<sup>1</sup>, Carl Dalhammar<sup>3</sup>

<sup>1</sup>National Institute for Environmental Studies, Japan; <sup>2</sup>TCO2 Co. Ltd., Japan; <sup>3</sup>Lund University Sweden

03.15 pm **Discussion**



## MAINSTREAMING LCM IN SMES: THE BENEFITS OF SECTORIAL APPROACHES

LOCATION: AMPHI B

CHAIRS: GERARD DEROUBAIX, FCBA, FRANCE  
AUBIN ROY, [AVNIR] BY CD2E, FRANCE

- 02.00 pm **Using a capability maturity approach to promote Life Cycle Management in Small to Medium sized Enterprises (SMEs)**  
THOMAS E. SWARR<sup>1</sup>, Anne-Claire Asselin<sup>2</sup>, Llorenç Milà i Canals<sup>2</sup>, Tracey Colley<sup>3</sup>, Sonia Validivia<sup>4</sup>  
*<sup>1</sup>Yale University, United States of America; <sup>2</sup>United Nations Environment Programme; <sup>3</sup>Colley Consulting/ Sustaining Australia; <sup>4</sup>World Resources Forum*
- 02.15 pm **Life Cycle Management in Food and Drink SMEs: Challenges for environmental assessments based on life cycle thinking in SMEs**  
REGULA LISA KELLER<sup>1</sup>, Niels Jungbluth<sup>1</sup>, Saioa Ramos<sup>2</sup>, Birgit Landquist<sup>3</sup>, Gudrun Olafsdottir<sup>4</sup>, Eva Yngvadottir<sup>5</sup>  
*<sup>1</sup>ESU-services, Switzerland; <sup>2</sup>Fundación Azti, Spain; <sup>3</sup>SP Technical Research Institute of Sweden, Sweden; <sup>4</sup>Haskoli Islands, Iceland; <sup>5</sup>EFLA HF, Iceland*
- 02.30 pm **Product classification for enabling systematic and sectorial Life Cycle Assessment in German furniture industry**  
JAN L. WENKER<sup>1</sup>, Klaus Richter<sup>2</sup>, Sebastian Rüter<sup>1</sup>  
*<sup>1</sup>Thünen Institute of Wood Research, Hamburg, Germany; <sup>2</sup>Munich Wood Research Institute, München, Germany*
- 02.45 pm **Making sustainable critical business decisions along a product value chain: the case of NEHSU FOODS LTD Cameroon Pilot Project**  
NAPOLEON FORPAH CHI<sup>1</sup>, Judith Ngang<sup>2</sup>, Charles Azong<sup>3</sup>, Eric Fonghang<sup>2</sup>, Delphine Wah<sup>2</sup>  
*<sup>1</sup>Watershed Task Group, Cameroon; <sup>2</sup>NEHSU FOODS Company LTD, Cameroon; <sup>3</sup>London Institute for Information Technology, Cameroon*
- 03.00 pm **Step by step from LCA to LCM IN SMEs: Case of Heliopac**  
Romain Jost<sup>1</sup>, MATHILDE COURBOT<sup>1</sup>, Naeem Adibi<sup>2</sup>  
*<sup>1</sup>Heliopac, France; <sup>2</sup>[avniR] by cd2e, France*
- 03.15 pm Discussion

## MANAGING LIFE CYCLE INFORMATION FROM SUPPLY CHAIN FOR LCM

LOCATION: AMPHI C

CHAIRS: HONGTAO WANG, SICHUAN UNIVERSITY, CHINA  
GREGORY ALLEN NORRIS, HARVARD UNIVERSITY, UNITED STATES OF AMERICA

- 02.00 pm **Activating the hidden data treasure**  
BO PEDERSEN WEIDEMA  
*Aalborg University, Denmark*
- 02.15 pm **Framework for assessing social sustainability of supply chain**  
TAMARA POPOVIC<sup>1</sup>, Ana Carvalho<sup>2</sup>, Andrzej Kraslawski<sup>1,3</sup>, Ana Barbósa Póvoa<sup>2</sup>  
*School of Industrial Engineering and Management, Lappeenranta University of Technology, Finland; <sup>2</sup>CEG-IST, Instituto Superior Técnico, Universidade de Lisboa, Portugal; <sup>3</sup>Faculty of Process and Environmental Engineering, Technical University Lodz, Poland*
- 02.30 pm **Evaluation of water and carbon footprints across the supply chain of the pig meat sector**  
XAVIER ALDEA<sup>1</sup>, Maria José Amores<sup>1</sup>, Desirée Marín<sup>1</sup>, Jesús Boschmonart-Rives<sup>2,3</sup>, Carles Martínez Gasol<sup>2,3</sup>, Joan Colón<sup>4</sup>, Sergio Ponsá<sup>4</sup>, Isabel Román<sup>5</sup>, Eudald Casas<sup>6</sup>  
*<sup>1</sup>Cetaqua, Spain; <sup>2</sup>Inèdit Innovació, S.L., Spain; <sup>3</sup>Sostenipra, Institute of Environmental Science and Technology (ICTA), Universitat Autònoma de Barcelona (UAB), Spain; <sup>4</sup>Grup d'investigació BETA, Universitat de Vic, Spain; <sup>5</sup>Lavola 1981 SA, Spain; <sup>6</sup>Innovacc, Catalan Innovation Association for the Pig Meat Sector, Spain*
- 02.45 pm **Challenges by applying LCA across value chains**  
CHRISTIAN KRÜGER<sup>1</sup>, Peter Saling<sup>1</sup>, Christoph Balzer<sup>2</sup>, Rob van der Heijden<sup>2</sup>  
*<sup>1</sup>BASF SE, Germany; <sup>2</sup>Shell*
- 03.00 pm **eFootprint for integrated environmental management along supply chain @ internet age**  
HONGTAO WANG<sup>1</sup>, Ping Hou<sup>2</sup>  
*<sup>1</sup>Sichuan University, China; <sup>2</sup>IKE Environmental Technology*
- 03.15 pm Discussion



## EFFICIENT AND SUCCESSFUL DESIGN METHODS AND TOOLS FOR SUSTAINABLE INDUSTRIAL SYSTEMS

LOCATION: ROOM E

CHAIRS: DOMINIQUE MILLET, ECOSD, FRANCE  
SEBASTIEN ZINCK, STEELCASE, FRANCE

- 02.00 pm **Increasing maturity in ecodesign through action research: A longitudinal in-company experience**  
Fabien Brones<sup>1,2</sup>, DANIELA PIGOSSO<sup>3</sup>, Marly Monteiro de Carvalho<sup>2</sup>, Tim McAloone<sup>3</sup>  
*Natura Inovação e Tecnologia de Produtos Ltda, Brazil; <sup>2</sup>Polytechnic School - University of São Paulo; <sup>3</sup>Technical University of Denmark*
- 02.15 pm **An innovative ecodesign approach for communication services**  
HELENE TEULON<sup>1</sup>, Xavier Durieux<sup>2</sup>, Gentiane Gastaldi<sup>1</sup>  
*<sup>1</sup>GINGKO 21, France; <sup>2</sup>Orange Business Services, France*
- 02.30 pm **Behind the scene of eco-innovation at Renault: from collective action to breakthrough concepts**  
STÉPHANE MOREL<sup>2,1</sup>, Lomig Unger<sup>3</sup>  
*<sup>1</sup>Mines Paristech, France; <sup>2</sup>Renault Engineering, France; <sup>3</sup>Renault Innovation, France*
- 02.45 pm **New research opportunities in eco-innovation from two years of collaborative research projects**  
Flore Vallet<sup>2</sup>, FRANCOIS CLUZEL<sup>1</sup>, Yann Leroy<sup>1</sup>, Benjamin Tyl<sup>3</sup>  
*<sup>1</sup>Ecole Centrale Paris, France; <sup>2</sup>Université de Technologie de Compiègne, France; <sup>3</sup>APESA, France*
- 03.00 pm **Challenges when evaluating Product/Service-Systems through Life Cycle Assessment**  
LOUISE LAUMANN KJAER<sup>1</sup>, Aris Pagoropoulos<sup>1</sup>, Jannick H. Schmidt<sup>2</sup>, Tim C. McAloone<sup>1</sup>  
*Technical University of Denmark, Denmark; <sup>2</sup>Aalborg University, Denmark*
- 03.15 pm **Selecting eco-maintenance strategy for system of renewable energy production**  
NICOLAS TCHERTCHIAN, Dominique Millet  
*SEATECH/ Université de Toulon, France*

## LCM FOR CHEMICALS AND MATERIALS - I

LOCATION: ROOM F

CHAIRS: GUY CASTELAN, PLASTICSEUROPE, FRANCE  
NIKOLAJ OTTE, HENKEL, GERMANY

- 02.00 pm **Mainstreaming LCM through Capability Maturity Model in an Indian chemicals company**  
Archana Datta, SANJEEVAN BAJAJ, Sohini Gupta  
*FICCI, India*
- 02.15 pm **Development of life-cycle inventories of chemical substances: Priority needs and call for participation**  
EMMANUELLE Aoustin<sup>1</sup>, Philippe Osset<sup>2</sup>, Olivier Réthoré<sup>3</sup>, Hélène Bortoli<sup>3</sup>  
*<sup>1</sup>Quantis, France; <sup>2</sup>Solinnen; <sup>3</sup>Ademe*
- 02.30 pm **Product Environmental Footprint (PEF) of decorative paints: Implementation and results of the PEF screening**  
PAU HUGUET FERRAN, Lisa Damen  
*Ecomatters, Netherlands*
- 02.45 pm **Impacts versus benefits of products – sustainability assessment looking at both sides of the coin**  
HARALD PILZ  
*Denkstatt GmbH, Austria*
- 03.00 pm **The example of A.I.S.E.'s Product Environmental Footprint Category Rules (PEFCR) pilot project on household heavy duty liquid laundry detergents**  
Sascha Nissen<sup>1</sup>, Philippe Osset<sup>2</sup>, Delphine Bauchot<sup>2</sup>, CHRISTELLE HENRY<sup>3</sup>  
*<sup>1</sup>A.I.S.E., Brussels; <sup>2</sup>Solinnen, Paris; <sup>3</sup>AFISE, Paris*
- 03.15 pm **P2P Program: the eco-design, eco-production and eco-elimination of solid propulsion boosters for next generation launchers**  
LUDOVIC DARIOL<sup>1</sup>, Nicolas Rumeau<sup>2</sup>, Régis Touya<sup>3</sup>  
*<sup>1</sup>Airbus DS, France; <sup>2</sup>Roxel; <sup>3</sup>Safran Herakles*



# Schedule

MONDAY, AUGUST 31

04.00 pm – 05.30 pm

MONDAY  
04.00 pm – 05.30 pm

## MAINSTREAMING LCM USING A SECTOR BASED AND REGIONAL APPROACH FOR INNOVATION

LOCATION: AMPHI A

CHAIRS: CHRISTIAN TRAISNEL, TEAM<sup>2</sup>, FRANCE  
VANESSA PASQUET, [AVNIR] BY CD2E, FRANCE

- 04.00 pm **Life-cycle approaches to regional development**  
FRITZ BALKAU<sup>1</sup>, Stefania Massari<sup>2</sup>, Guido Sonnemann<sup>3</sup>  
*<sup>1</sup>Individual, France; <sup>2</sup>University of Salento; <sup>3</sup>University of Bordeaux*
- 04.15 pm **Western Cape regional resource flow model: Using Life Cycle Thinking to examine the resource intensity of agricultural value chains**  
Catherine Pineo<sup>1</sup>, PIETER FREDERIK JANSE VAN VUUREN<sup>1</sup>, Lauren Basson<sup>1</sup>, Chris Millson<sup>1</sup>, Jim Petrie<sup>2</sup>  
*<sup>1</sup>GreenCape Sector Development Agency, Cape Town, South Africa; <sup>2</sup>Department of Economic Development and Tourism, Western Cape Government, Cape Town, South Africa*
- 04.30 pm **Influence of developing LCM notion in Europe to Caucasus and neighbouring regions**  
VASIF VALIYEV<sup>1</sup>, Gurbuz Comak<sup>2</sup>  
*<sup>1</sup>Petkim Container Terminal Project, Turkey; <sup>2</sup>Petkim Petrochemical Holding, Turkey*
- 05.45 pm **Introducing the extended product approach and product category rules for motor systems**  
JOHANNES AUER, Benno Weis  
*Siemens AG, Germany*
- 06.00 pm **Mainstreaming Life Cycle Management and ecodesign in the building sector: A sector based and regional approach in Northern France**  
MARIE DARUL<sup>1</sup>, Naeem Adibi<sup>2</sup>, Vanessa Pasquet<sup>2</sup>, Marion Sié<sup>3</sup>, Christelle Demaretz<sup>4</sup>  
*<sup>1</sup>cd2e, France; <sup>2</sup>[avniR] by cd2e, France, <sup>3</sup>Cycléco, France, <sup>4</sup>Conseil régional Nord-Pas de Calais, France*
- 06.15 pm **Discussion**



## ENVIRONMENTAL FOOTPRINTING AND LABELING: EXPERIENCES WITH ENVIRONMENTAL PROGRAMS

LOCATION: AMPHI B

CHAIRS: EDOUARD FOURDRIN, ADEME, FRANCE  
JÉRÔME PAYET, CYCLECO, FRANCE

- 04.00 pm **The PEPecopassport® program: An international sector-specific framework for Type III environmental declarations**  
CAROLINE CATALAN<sup>1,6</sup>, Charlotte Ingold<sup>1,6</sup>, Jean-Michel Rossignol<sup>2,6</sup>, Serge Theoleyre<sup>3,6</sup>, Pierre-Yves Berthelemy<sup>4,6</sup>, Emmanuelle Briere<sup>5,6</sup>, Sophie Barbeau<sup>1,6</sup>  
*<sup>1</sup>Nexans; <sup>2</sup>Legrand; <sup>3</sup>Schneider Electric; <sup>4</sup>Groupe Atlantic; <sup>5</sup>Uniclima; <sup>6</sup>PEP association*
- 04.15 pm **“Base IMPACTS ®”: Setting up a database to support the French footprint program on mass market products**  
OLIVIER RETHORE  
*ADEME, France*
- 04.30 pm **The batteries Product Environmental Footprint: Environmental communication on batteries in BtB**  
CLEMENCE SIRET  
*Saft, France*
- 04.45 pm **Investigating options for different compliance systems for Product Environmental Footprint (PEF) declarations**  
Olivier Jan, CLÉMENT TOSTIVINT, Marion Sarteel  
*Deloitte, France*
- 05.00 pm **Product Carbon Footprint Study of Lenovo Laptop**  
XUN GONG<sup>1</sup>, Hongzhi Tao<sup>1</sup>, Ge Tang<sup>1</sup>, Hongtao Wang<sup>2</sup>, Ping Hou<sup>3</sup>  
*<sup>1</sup>Lenovo, China; <sup>2</sup>College of Architecture and Environment, Sichuan University, China; <sup>3</sup>IKE Environmental Technology Co.,Ltd, China*
- 05.15 pm **Discussion**

## GLOBAL PARTNERSHIPS AND COLLECTIVE ACTION TO IMPLEMENT LCM

LOCATION: AMPHI C

CHAIRS: PETER R. SALING, BASF SE, GERMANY  
STÉPHANE MOREL, RENAULT, FRANCE

- 04.00 pm **From current practice to harmonized cross-sectorial Life Cycle Sustainability Assessment**  
DANA KRALISCH  
*Friedrich-Schiller-University Jena, Germany*
- 04.15 pm **Mainstreaming LC Thinking Worldwide – Building Critical Mass in Emerging and Rapidly Growing Economies through Capacity Building**  
SANJEEVAN BAJAJ<sup>1</sup>, Sonia Valdivia<sup>2</sup>, Cássia Maria Lie Ugaya<sup>3</sup>  
*<sup>1</sup>Federation of Indian Chambers of Commerce and Industry (FICCI), India; <sup>2</sup>World Resources Forum, Switzerland; <sup>3</sup>Federal Technological University of Paraná, Brazil*
- 04.30 pm **Managing global supplies of technology metals: The Conflict-Free Sourcing Initiative**  
Michael Rohwer<sup>1</sup>, STEVEN B YOUNG<sup>2</sup>  
*<sup>1</sup>Conflict-Free Sourcing Initiative, Washington, DC, USA; <sup>2</sup>SEED, University of Waterloo, Canada*
- 04.45 pm **Collaborations to manage life cycles – identified values from a long lasting commitment between academy, industry and government in Sweden**  
SARA PALANDER, Anna Wikström  
*the Swedish Life Cycle Center/Chalmers University of Technology, Sweden*
- 05.00 pm **Industrial chairs – a proven collaboration concept and promising perspective for industry and academia to commonly advance science and improve the management of life cycles**  
RALPH ROSENBAUM<sup>1</sup>, Agata Sferratore<sup>2</sup>, Sebastien Louvet<sup>3</sup>, Pascal Dauthuille<sup>4</sup>, Perrine Languet<sup>5</sup>, Stéphane Le Pochat<sup>6</sup>, Catherine Macombe<sup>1</sup>, Carole Sinfort<sup>7</sup>, Claudine Basset-Mens<sup>8</sup>, Guillaume Junqua<sup>9</sup>  
*<sup>1</sup>Irstea, France; <sup>2</sup>Société du Canal de Provence, France; <sup>3</sup>BRL Group, France; <sup>4</sup>SUEZ Environment; <sup>5</sup>UCCOAR-Val D’Orbieu Group, France; <sup>6</sup>EVEA, France; <sup>7</sup>Montpellier SupAgro, France; <sup>8</sup>CIRAD, France; <sup>9</sup>École des Mines d’Alès, France*
- 05.15 pm **Review of 5 years of cooperative life cycle management within the European coatings industry**  
EMILIE CARASSO<sup>2</sup>, Max Sonnen<sup>1</sup>  
*<sup>1</sup>Ecomatters, Netherlands; <sup>2</sup>CEPE, Belgium*



## EFFICIENT AND SUCCESSFUL DESIGN METHODS AND TOOLS FOR SUSTAINABLE INDUSTRIAL SYSTEMS II

LOCATION: ROOM E

CHAIRS: NICOLAS PERRY, ARTS ET MÉTIERS - I2M, FRANCE  
STEPHANE LE POCHAT, EVEA, FRANCE

- 04.00 pm **A LCA-integrated mixed-integer multiobjective optimization platform for eco-design of conventional potable water plants and their life cycle networks**  
ARAS AHMADI<sup>1</sup>, Florin Capitanescu<sup>2</sup>, Ligia Barna<sup>1</sup>, Enrico Benetto<sup>2</sup>  
*Université de Toulouse, France; <sup>2</sup>Luxembourg Institute of Science and Technology, Environmental Research and Innovation (LIST/ERIN), Luxembourg*
- 04.15 pm **A tool for LCA and LCC of heat supply systems**  
KEVIN MICHAEL KNECHT, Rafael Peter Burri, Niko Heeren, Stefanie Hellweg  
*ETHZ, Switzerland*
- 04.30 pm **Methodology for evaluating the sustainability of products and processes - Application to alternative substitution techniques of chromium VI**  
Claire Villemur<sup>1</sup>, Marion Delaire<sup>1</sup>, CAMILLE JUGY<sup>1</sup>, Sébastien Garnier<sup>2</sup>, Leslie Jacquemin<sup>2</sup>  
*<sup>1</sup>Altran, Blagnac, France; <sup>2</sup>Altran Research, Blagnac, France*
- 04.45 pm **Development of a tool for Eco-designing AirFrame: LEAF**  
Emmanuelle Schloesing<sup>1</sup>, AUGUSTIN CHANOINE<sup>1</sup>, Yannick Le Guern<sup>1</sup>, Gael Sarrieu<sup>2</sup>  
*<sup>1</sup>Deloitte, France; <sup>2</sup>Airbus, France*
- 05.00 pm **Multi-criteria decision support for sustainable asset management and its application in the shipping sector**  
STEFANIE NIEKAMP<sup>1,2</sup>, Ujjwal R Bharadwaj<sup>1</sup>, Jhuma Sadhukhan<sup>2</sup>, Marios Chryssanthopoulos<sup>2</sup>  
*<sup>1</sup>TWI Ltd, Cambridge, United Kingdom; <sup>2</sup>University of Surrey, Guildford, United Kingdom*
- 05.15 pm **Water footprint calculation: Application to urban water cycle**  
YWANN PENRU<sup>1</sup>, Delphine Antonucci<sup>2</sup>, Maria José Amores Barrero<sup>3</sup>, Catherine Chevauché<sup>1</sup>  
*<sup>1</sup>Suez Environnement, France; <sup>2</sup>Safège, France; <sup>3</sup>CETaqua, Spain*

## LCM FOR CHEMICALS AND MATERIALS - II

LOCATION: ROOM F

CHAIRS: GUY CASTELAN, PLASTICSEUROPE, FRANCE  
PHILIPPE LOUBET, CYVI, ISM, BORDEAUX INP, FRANCE

- 04.00 pm **SewageLCI 1.0 – A first generation inventory model for quantification of chemical emissions via sewage systems. Application on chemicals of concern**  
AURÉLIE GALLICE<sup>1</sup>, Morten Birkved<sup>2</sup>, Sébastien Kech<sup>1</sup>  
*<sup>1</sup>Veolia Research & Innovation, France; <sup>2</sup>Department of Management Engineering, Technical University of Denmark, Denmark*
- 04.15 pm **Integrated Analysis of Solvents for Adhesives**  
ANDRÉ MOREIRA CAMARGO<sup>1</sup>, Mariana Matera Veras<sup>2</sup>, Délcio Rodrigues<sup>1</sup>, Yuki Hamilton Onda Kabe<sup>3</sup>, Luiz Gustavo Ortega<sup>3</sup>  
*<sup>1</sup>MACJEN, Brazil; <sup>2</sup>USP, Brazil; <sup>3</sup>Braskem, Brazil*
- 04.30 pm **Unique LCA modeling approaches to developing process benchmarks and hotspots for the global manganese alloy industry**  
JULIA DAVOURIE<sup>1</sup>, Luke A. Westfall<sup>1</sup>, Mohammed Ali<sup>1</sup>, Catalina F. Gonzalez<sup>1</sup>, Doreen Mc Gough<sup>2</sup>  
*<sup>1</sup>Hatch Ltd., Canada; <sup>2</sup>International Manganese Institute (IMnI), France*
- 04.45 pm **Preferable, profitable and possible – the interplay between research approaches and industrial experience in finding common routes to more sustainable industrial systems**  
EMMA REX, Johan Torén, Johanna Ulmanen, Johanna Berlin  
*SP Technical Research Institute of Sweden, Sweden*
- 05.00 pm **Environmental Life Cycle Assessment of OEM Automotive Paint Shop Technologies**  
REBECCA GLASPIE, Jason Pierce, Josh Seeley  
*Eastman Chemical Company, United States of America*
- 05.15 pm **Life Cycle Assessment as a Tool for Understanding Material Efficiency Strategies relating to the Circular Economy**  
NICK COLEMAN<sup>1</sup>, Peter Hodgson<sup>1</sup>, Stuart Walker<sup>2</sup>  
*<sup>1</sup>Tata Steel, United Kingdom; <sup>2</sup>University of Sheffield, United Kingdom*





# Schedule

## TUESDAY, SEPTEMBER 1: PLENARY SESSION

09.00 am – 10.30 am

## COFFEE BREAK AND POSTER SESSION

10.30 am – 11.00 am

## TUESDAY, SEPTEMBER 1: PARALLEL SESSIONS

11.00 am – 12.30 am

## LUNCH AND POSTER SESSION || THEMATIC LUNCH SESSION BY ADEME

12.30 pm – 02.00 pm

TUESDAY  
09.00 am – 10.30 am

### BUSINESS PERSPECTIVES ON LCM FOR SUSTAINABLE VALUE CREATION

LOCATION: AMPHI A

MODERATOR: EMMANUELLE Aoustin, Quantis International

- 09.00 am **Welcome**  
Manuele Margni, CIRAIQ – Polytechnique Montréal, Canada
- 09.05 am **Organizational LCA: The new member of the ISO LCA family—launching the UNEP/SETAC Life Cycle Initiative guidance document**  
Matthias Finkbeiner, Chair of Sustainable Engineering, Technische Universität Berlin
- 09.15 am **Life-Cycle Engineering: The roadmap to emission free mobility**  
Stephan Krinke, Director Environmental Affairs Product - Volkswagen AG
- 09.40 am **Life Cycle Thinking: Getting to Scale**  
Euan Murray, CEO at The Sustainability Consortium
- 10.05 am **Championing for sustainability: How companies are creating excitement for integrated sustainability**  
Urs Schenker, Senior Sustainability Specialist - Nestlé



## FROM PROJECTS TO PROCESSES TO IMPLEMENT LCM IN BUSINESS

LOCATION: AMPHI A

CHAIRS: MARTIN BAITZ, THINKSTEP, GERMANY  
ELMAR ROTHER, EVONIK INDUSTRIES AG, GERMANY

- 11.00 am **From projects to processes in LCM - different companies - different pathways - comparable necessities - consistent basis**  
MARTIN BAITZ  
*Thinkstep, Germany*
- 11.15 am **Inclusion of Life Cycle Concepts in Sustainability and CSR Guidelines for Indian Public Sector Enterprises**  
ASHOK KUMAR PAVADIA<sup>1</sup>, Sanjeevan Bajaj<sup>2</sup>, Archana Datta<sup>2</sup>, Sohini Gupta<sup>2</sup>  
<sup>1</sup>*Department of Public Enterprises, Ministry of Heavy Industries and Public Enterprises;*  
<sup>2</sup>*Federation of Indian Chambers of Commerce and Industry (FICCI), India*
- 11.30 am **Good examples – of importance to influence not yet devoted to learn how to benefit from the life cycle perspective**  
Johanna Spångberg<sup>1</sup>, Sara Palander<sup>2</sup>, Elisabeth Hochschorner<sup>3</sup>, ANNA WIKSTRÖM<sup>2</sup>  
<sup>1</sup>*Swedish University of Agricultural Sciences, Uppsala;* <sup>2</sup>*The Swedish Life Cycle Center, Gothenburg;* <sup>3</sup>*KTH Royal Institute of Technology, Stockholm*
- 11.45 am **Life Cycle Management and Sustainability as a Business Driver in the Value Chain: How to make it happen**  
GERALD REBITZER, Fabio Peyer  
*Amcor, Switzerland*
- 12.00 pm **I2P<sup>3</sup> - Implementation of sustainability assessment as part of strategic innovation management of a large specialty chemicals company**  
MARTIN KIRCHNER, Burkard Kreidler  
*Evonik Industries AG, Germany*
- 12.15 pm **Integrating Life Cycle Engineering into the automotive product development process**  
FLORIAN BROCH, Stephan Krinke  
*Volkswagen AG, Germany*

## INTEGRATING SOCIAL ASPECTS IN LCM

LOCATION: AMPHI B

CHAIRS: BERNARD MAZIJN, INSTITUTE FOR SUSTAINABLE DEVELOPMENT & GENT UNIVERSITY, BELGIUM  
JEAN-PIERRE REVÉRET, CIRAIG, CANADA

- 11.00 am **A comprehensive review of evaluation methods in social performance (Type I) S-LCA and their potential for integration with leading CSR frameworks**  
SARA RUSSO GARRIDO<sup>1</sup>, Luce Beaulieu<sup>1</sup>, Jean-Michel Couture<sup>2</sup>, Julie Parent<sup>2</sup>, Jean-Pierre Revéret<sup>1</sup>  
<sup>1</sup>*CIRAIG, Université du Québec à Montréal, Canada;* <sup>2</sup>*Groupe AGÉCO, Canada*
- 11.15 am **Materiality Analysis in the Value Chain using E-LCA and S-LCA for GRI G4 Sustainability Reporting**  
Pradeep Panigrahi<sup>1</sup>, Uday Gupta<sup>2</sup>, RAJESH KUMAR SINGH<sup>3</sup>  
<sup>1</sup>*Mahindra Sanyo Special Steel Pvt. Ltd.;* <sup>2</sup>*Mahindra Sanyo Special Steel Pvt. Ltd.;* <sup>3</sup>*Thinkstep, India*
- 11.30 am **Can organizational level strengthen the implementation of S-LCA?**  
JULIA MARTÍNEZ-BLANCO<sup>1,2</sup>, Annekatrin Lehmann<sup>1</sup>, Ya-Ju Chang<sup>1</sup>, Matthias Finkbeiner<sup>1</sup>  
<sup>1</sup>*Technische Universität Berlin, Germany;* <sup>2</sup>*Inèdit Innovació SL, Spain*
- 11.45 am **PSILCA – A new, comprehensive, interactive database for Product Social Impact Life Cycle Assessment**  
FRANZISKA EISFELDT, Andreas Ciroth  
*GreenDelta GmbH, Germany*
- 12.00 pm **Introducing Social Data in Ecoinvent – First results**  
CATHERINE BENOIT NORRIS<sup>1</sup>, Gregor Wernet<sup>2</sup>, Gregory Norris<sup>1</sup>  
<sup>1</sup>*New Earth, United States of America;* <sup>2</sup>*Ecoinvent center, Switzerland*
- 12.15 pm **LCSA methodological framework for a biorefinery case study: Norway versus USA**  
Clara Valente, Ingunn Saur Modahl, ANDREAS BREKKE  
*Ostfold Research AS, Norway*



## LCM IN THE ELECTRICITY SECTOR

LOCATION: AMPHI C

CHAIRS: BEN AMOR, UNIVERSITÉ DE SHERBROOKE, CANADA  
ANNE PRIEUR-VERNAT, GDF SUEZ, FRANCE

- 11.00 am **Life Cycle Assessment of decommissioning a nuclear power plant**  
MAXIMILIAN SEIER<sup>1</sup>, Till Zimmermann<sup>2</sup>  
*<sup>1</sup>TU Darmstadt, Germany; <sup>2</sup>University of Bremen, Germany*
- 11.15 am **Novel life cycle assessment approaches for flexible electro-chemical energy storage**  
FLORIAN BÖSS<sup>1</sup>, Georg Markowz<sup>1</sup>, Anika Regett<sup>2</sup>, Timo Eickelkamp<sup>3</sup>  
*<sup>1</sup>Evonik Industries AG, Germany; <sup>2</sup>Ffe - Forschungsstelle für Energiewirtschaft e.V., Germany; <sup>3</sup>E.ON Gas Storage GmbH, Germany*
- 11.30 am **Turning data-intensive life cycle framework into policy-relevant communication tools: the case of electricity systems**  
THOMAS GIBON, Francesca Verones, Edgar Hertwich  
*Industrial Ecology Programme, Norwegian University of Science and Technology, Norway*
- 11.45 am **Life cycle assessment of the high voltage transmission system in Iceland**  
Hildur B. Hrólfsdóttir<sup>1</sup>, ALEXANDRA KJELD<sup>2</sup>, Gyða M. Ingólfssdóttir<sup>2</sup>, Helga J. Bjarnadóttir<sup>2</sup>  
*<sup>1</sup>The Icelandic transmission company Landsnet hf., Iceland; <sup>2</sup>EFLA Consulting Engineers, Iceland*
- 12.00 pm **GHG Emission and Energy Payback Time of AC Electricity Generated by SunPower® Oasis® Photovoltaic Power Plant**  
LOÏC FRANCKE<sup>1</sup>, Marie-Sophie Armand<sup>1</sup>, Marissa Yao<sup>2</sup>, Craig Oeser<sup>2</sup>  
*<sup>1</sup>TOTAL New Energies; <sup>2</sup>SunPower Corporation*
- 12.15 pm **SOLCA, a tool to assess environmental impacts of photovoltaic systems**  
Paul Lautridou, JÉRÔME PAYET  
*Cycleco, France*

## MONETARISATION: EFFECTIVE APPROACHES TO COMBINE MULTIPLE DIMENSIONS OF SUSTAINABILITY ASSESSMENT

LOCATION: ROOM E

CHAIRS: JEAN-FRANCOIS VIOT, SOLVAY, FRANCE  
PHILIPP PREISS, EUROPEAN INSTITUTE FOR ENERGY RESEARCH, GERMANY

- 11.00 am **Environmental Benefits & Costs of Polyethylene (PE)**  
Julie Raynaud<sup>2</sup>, YUKI HAMILTON ONDA KABE<sup>1</sup>, Luiz Gustavo Ortega<sup>1</sup>, Neil McIndoe<sup>2</sup>  
*<sup>1</sup>Braskem, Brazil; <sup>2</sup>Trucost*
- 11.15 am **Monetarisation of environmental impacts in the new 2015 EPS version**  
BENGT ANDERS STEEN  
*Chalmers University of Technology, Sweden*
- 11.30 am **Eco-efficient recycling and (plastic) waste management based on Cost-Benefit Analyses**  
HARALD PILZ  
*Denkstatt GmbH, Austria*
- 11.45 am **130+ Swiss Army Knives that will solve all interpretation problems in impact assessment**  
MARK GOEDKOOOP<sup>1</sup>, Dorothy Maxwell<sup>2</sup>  
*<sup>1</sup>PRé Consultants, Netherlands, The; <sup>2</sup>Global View Sustainability Services Ltd, United Kingdom*
- 12.00 pm **Resources & Ecosystem Services: capturing the loss of resources functional value in LCIA**  
Manuele Margni<sup>1</sup>, Anne-Marie Boulay<sup>1</sup>, Vincent de Bruille<sup>1</sup>, Viêt Cao<sup>1</sup>, Olivier Jolliet<sup>2</sup>, Sormeh Kashef Haghighi<sup>1</sup>, CÉCILE BULLE<sup>3</sup>  
*<sup>1</sup>CIRAIG, Polytechnique Montréal, Canada; <sup>2</sup>School of Public Health, University of Michigan, USA; <sup>3</sup>CIRAIG, Université du Québec Montréal, Canada*
- 12.15 pm **Discussion**



LCM AND HUMAN TOXICITY EVALUATION

LOCATION: ROOM F

CHAIRS: RALPH ROSENBAUM, IRSTEA, FRANCE  
QUENTIN DE HULTS, BASF, BELGIUM

11.00 am **Life Cycle Assessment and risk assessment: Comparison based on products examples**

GUY CASTELAN

*PlasticsEurope*

11.15 am **Life Cycle Management and toxicity assessment: Apples and Oranges; or two Sides of the same coin?**

MARK GOEDKOOPT<sup>1</sup>, Lauren Heine<sup>2</sup>, Laura Golsteijn<sup>1</sup>

<sup>1</sup>PRé Consultants; <sup>2</sup>Clean Production Action

11.30 am **Are the additional impact categories human toxicity, particulate matter formation and ionising radiation ready for uptake in the CEN standards EN 15804 and EN 15978?**

**Presentation of the evaluation framework and intermediate evaluation results**

WAI CHUNG LAM<sup>1</sup>, Katrien Boonen<sup>1</sup>, Karen Allacker<sup>2</sup>, Carolin Spirinckx<sup>1</sup>, Dieter De Lathauwer<sup>3</sup>

<sup>1</sup>VITO, Belgium; <sup>2</sup>ASRO, KU Leuven, Belgium; <sup>3</sup>Federal public service, Health, Food chain safety and Environment, Belgium

11.45 am **Life cycle considerations in assessing alternatives to substitute hazardous chemicals in consumer products**

PETER FANTKE

*Quantitative Sustainability Assessment Division, Department of Management Engineering, University of Denmark*

12.00 pm **ProScale - A proposal of new human toxicity indicator based on REACH data and applicable within life cycle management**

PETER R. SALING<sup>1</sup>, Fritz Kalberlah<sup>4</sup>, Eva Schminke<sup>2</sup>, Quentin de Hults<sup>1</sup>, Birgit Grahl<sup>3</sup>

<sup>1</sup>BASF SE, Germany; <sup>2</sup>Thinkstep; <sup>3</sup>Integrahl, Heidekamp; <sup>4</sup>Research and Advisory Institute for hazardous substances (FoBiG), Freiburg

12.15 pm **Discussion**



# Schedule

TUESDAY, SEPTEMBER 1

02.00 pm – 03.30 pm

COFFEE BREAK AND POSTER SESSION

03.30 pm – 04.00 pm

TUESDAY  
02.00 pm – 03.30 pm

## MAKING THE LIFE CYCLE METRICS DEPARTMENT MORE RELEVANT IN LARGE ORGANIZATIONS: FROM THE CELLAR TO THE STAGE

LOCATION: AMPHI A

CHAIRS: MARK GOEDKOOP, PRÉ CONSULTANTS, NETHERLANDS  
ALAIN WATHELET, SOLVAY, BELGIUM

- 02.00 pm **Life Cycle Assessment management within the Solvay Group: a testimony**  
JEAN-FRANCOIS VIOT<sup>1</sup>, Alain Wathelet<sup>2</sup>, Guy-Noël Sauvion<sup>3</sup>, Françoise Lartigue-Peyrou<sup>3</sup>  
*<sup>1</sup>Solvay Research and Innovation, Eco-efficiency Evaluation 3E, Research & Innovation Centre, Paris; <sup>2</sup>Solvay Research and Innovation, Eco-efficiency Evaluation 3E, Research & Innovation Centre, Bruxelles; <sup>3</sup>Solvay Research and Innovation, Eco-efficiency Evaluation 3E, Research & Innovation Centre, Lyon*
- 02.15 pm **How to get LCA results out of LCA department in to the board room**  
ANNE GAASBEEK, Eric Mieras  
*PRé Consultants, Netherlands*
- 02.30 pm **The Business Value of Life Cycle Approaches – thinkstep and Johnson & Johnson**  
Chris Peterson<sup>1</sup>, Al Iannuzzi<sup>2</sup>, JAMES FAVA<sup>1</sup>  
*<sup>1</sup>Thinkstep, Canada; <sup>2</sup>Johnson & Johnson*
- 02.45 pm **Managing Sustainability in Innovation Projects**  
YUKI HAMILTON ONDA KABE, Luiz Gustavo Ortega, Aline Fernandes da Silva, Giancarlo Santana Roxo  
*Braskem, Brazil*
- 03.00 pm **From LCA projects to life cycle management: The Total M&S's experiment of initiatives to implement the life cycle thinking and life cycle management**  
CÉLINE VERRAT, Géraldine Pinol  
*TOTAL Marketing & Services, France*
- 03.15 pm **Discussion**



## LCM FOR TRANSPORT AND MOBILITY - I

LOCATION: AMPHI B

CHAIRS: STEPHAN KRINKE, VOLKSWAGEN AG, GERMANY  
LUDOVIC DARIOL, AIRBUS DEFENCE AND SPACE, FRANCE

02.00 pm **LCA of InCar plus automotive solutions**

JIA-UEI CHAN, Anna Meincke  
*ThyssenKrupp Steel Europe, Germany*

02.15 pm **Life Cycle Design and Engineering Lab for Lightweight Concepts**

Christoph Herrmann, Christopher Schmidt, ALEXANDER KALUZA, Sebastian Thiede, Tina Dettmer  
*Technische Universität Braunschweig, Germany*

02.30 pm **An example of integration method of social aspect in the life cycle assessment of a product in automotive sector**

MARZIA TRAVERSO, Peter Tarne, Volkmar Wagner, Stefan Brattig, Ferdinand Geckeler  
*BMW Group, Germany*

02.45 pm **Expanding the scope of transport emission inventories – from well-to-wheel analyses to a life cycle assessment approach**

KIRSTEN BIEMANN, Frank Dünnebeil, Hinrich Helms, Julius Jöhrens, Claudia Kämper  
*Institut für Energie- und Umweltforschung Heidelberg GmbH, Germany*

03.00 pm **Clarity leads to differentiation - a novel approach to create value from LCA**

ERIC W. BISCHOF<sup>1</sup>, Bettina M. von Streit<sup>2</sup>  
<sup>1</sup>*Bayer MaterialScience AG, Germany;* <sup>2</sup>*Bayer Technology Services GmbH, Germany*

03.15 pm **Discussion**

## LCM IN THE ENERGY SECTOR

LOCATION: AMPHI C

CHAIRS: MARC-ANDREE WOLF, MAKI CONSULTING, GERMANY  
SARA PALANDER, THE SWEDISH LIFE CYCLE CENTER/CHALMERS UNIVERSITY OF TECHNOLOGY, SWEDEN

02.00 pm **Life Cycle Assessment of Electricity Generation: The case of Mauritius**

RAVINA BRIZMOHUN<sup>1</sup>, Toolseeram Ramjeawon<sup>1</sup>, Adisa Azapagic<sup>2</sup>  
<sup>1</sup>*University of Mauritius, Mauritius;* <sup>2</sup>*University of Manchester, UK*

02.15 pm **Environmental impacts from future deep geothermal power plants – a parameterised, prospective LCA-cost model**

KARIN TREYER, Christian Bauer, Warren Schenler  
*Paul Scherrer Institut, Switzerland*

02.30 pm **Energy and environmental impacts of energy related products: The case study of a device for reducing natural gas consumption in the production of sanitary hot water**

MAURIZIO CELLURA<sup>1</sup>, Francesco Guarino<sup>1</sup>, Sonia Longo<sup>1</sup>, Giovanni Salemi<sup>2</sup>  
<sup>1</sup>*University of Palermo, Dipartimento di Energia, Ingegneria dell'Informazione e Modelli Matematici Italy;* <sup>2</sup>*Dipartimento Urbanistica, Assessorato Regionale Territorio e Ambiente, Regione Sicilia, Italy*

02.45 pm **Environmental due diligence of co2 capture technologies**

ANDERS HAMMER STRØMMAN  
*NTNU, Norway*

03.00 pm **Carbon hotspot analysis of hydrogen energy carriers**

YUKI KUDOH, Naomi Kitagawa, Mai Murayama, Kiyotaka Tahara  
*National Institute of Advanced Industrial Science and Technology, Japan*

03.15 pm **Discussion**



## ORGANIZATIONAL LCA (OLCA) IS THE NEW TOOL FOR LCM

LOCATION: ROOM E

CHAIRS: MATTHIAS FINKBEINER, TU BERLIN, GERMANY  
ATSUSHI INABA, KOGAKUIN UNIVERSITY, JAPAN

02.00 pm **Introduction + the OLCA guide launch**

02.15 pm **Launch and Roadtesting of the Guidance on Organizational LCA by the UNEP/SETAC Life Cycle Initiative**  
Matthias Finkbeiner<sup>1</sup>, JULIA MARTINEZ-BLANCO<sup>1</sup>, Llorenç Mila-I-Canals<sup>2</sup>, Ana Quiros<sup>3</sup>, Atsushi Inaba<sup>4</sup>  
*<sup>1</sup>TU Berlin, Germany; <sup>2</sup>UNEP, Paris, France; <sup>3</sup>Ecoglobal, Costa Rica; <sup>4</sup>Kogakuin University, Japan*

02.30 pm **O-LCA study for Sustainable Procurement**  
KENJI OHASHI  
*SHISEIDO CO., LTD., Japan*

02.45 pm **Developing a Carbon Footprint inventory for a regional network of municipalities**  
HOGNE NERSUND LARSEN<sup>1</sup>, Christofer Skaar<sup>1</sup>, Christian Solli<sup>1</sup>, Grete Rasmussen<sup>2</sup>  
*<sup>1</sup>Asplan Viak AS, Norway; <sup>2</sup>Fredrikstad kommune*

03.00 pm **Developing and testing common rules to quantify The Organisation Environmental Footprint in Retail Sector**  
ROMAIN POIVET<sup>1</sup>, Vik Vets<sup>2</sup>, Lea Lim<sup>3</sup>, Steven Van Hemelryck<sup>4</sup>, Emilie Aubry<sup>5</sup>, Hanna Schreiber, Paolo Masoni<sup>7</sup>, Martin Wildenberg<sup>8</sup>, François-Xavier Morvan<sup>9</sup>, Shela Flechter<sup>10</sup>, Sophie Giller<sup>11</sup>, Arnaud Brulair<sup>12</sup>, Carole Dubois<sup>13</sup>, Sebastien Humbert<sup>13</sup>  
*<sup>1</sup>ADEME, France; <sup>2</sup>Carrefour, France; <sup>3</sup>Carrefour, Belgique; <sup>4</sup>Colruyt Group; <sup>5</sup>Decathlon, France; <sup>6</sup>Umweltbundesamt, Autriche; <sup>7</sup>ENEA, Italie; <sup>8</sup>Global 2000, Autriche; <sup>9</sup>Kering, France; <sup>10</sup>Office Depot, USA; <sup>11</sup>PERIFEM, France; <sup>12</sup>Picard, France; <sup>13</sup>Quantis, Suisse*

03.15 pm **Discussion**

## WBCSD SOCIAL METRICS INITIATIVE

LOCATION: ROOM F

CHAIRS: KITRHONA CERRI, WBCSD, SWITZERLAND  
JACOBINE DAS GUPTA - MANNAK, DSM, NETHERLANDS

02.00 pm **Applying product related sustainability assessment to identify hotspots in the production of key materials for the automotive industry**  
PETER TARNE<sup>1</sup>, Marzia Traverso<sup>1</sup>, Volkmar Wagner<sup>1</sup>, René Scheumann<sup>2</sup>, Matthias Finkbeiner<sup>2</sup>  
*<sup>1</sup>BMW Group, Germany; <sup>2</sup>Chair of Sustainable Engineering, Technische Universität Berlin, Germany*

02.15 pm **Product Social Impact Assessment of a Run On Flat Tire**  
Lynn Bell<sup>1</sup>, Marzia Traverso<sup>2</sup>, Peter Saling<sup>3</sup>, David Woodyard<sup>1</sup>, JOÃO FONTES<sup>4</sup>  
*<sup>1</sup>The Goodyear Tire & Rubber Company, United States of America; <sup>2</sup>BMW Group; <sup>3</sup>BASF SE - We create chemistry, Germany; <sup>4</sup>PRé Consultants, Netherlands*

02.30 pm **Social Metrics for chemical products**  
Isabelle Spiegel<sup>1</sup>, Andrea Brown<sup>2</sup>, KITRHONA CERRI<sup>2</sup>  
*<sup>1</sup>PwC, France; <sup>2</sup>WBCSD, Switzerland*

02.45 pm **Social issues in the automotive sector: Review of existing approaches and the social LCA application scene**  
LAURA ZANCHI<sup>1</sup>, Massimo Delogu<sup>1</sup>, Alessandra Zamagni<sup>2</sup>, Marco Pierini<sup>1</sup>  
*<sup>1</sup>Department of Industrial Engineering, University of Florence, Italy; <sup>2</sup>Ecoinnovazione srl, Spin-off ENEA, Italy*

03.00 pm **Enhancing operational social LCA methods for proper sustainability assessment in LCM**  
Christopher Zimdars<sup>1</sup>, STEPHAN PFISTER<sup>1</sup>, Andreas Ciroth<sup>2</sup>  
*<sup>1</sup>ETH Zurich, Switzerland; <sup>2</sup>GreenDelta GmbH, Berlin*

03.15 pm **Discussion**



# Schedule

TUESDAY, SEPTEMBER 1

04.00 pm – 05.30 pm

TUESDAY  
04.00 pm – 05.30 pm

## CREATING SHARED VALUE AND RESOURCE EFFICIENCY WITH LCM ALONG THE SUPPLY CHAIN

LOCATION: AMPHI A

CHAIRS: MARTINA B. PROX, IFU HAMBURG, HAMBURG INSTITUTE FOR ENVIRONMENTAL IT, GERMANY  
MARZIA TRAVERSO, BMW GROUP, GERMANY

- 04.00 pm **The application of Life Cycle Management Capability Maturity Model at Freudenberg Non-Wovens South Africa**  
Zubeida Zwavel Tassiem<sup>1</sup>; LEE-HENDOR RUITERS<sup>2</sup>  
*<sup>1</sup>Zwavel Environmental Consulting, South Africa; <sup>2</sup>National Cleaner Production Centre of South Africa*
- 04.15 pm **Linking the local consumption of nickel to global supply Chain**  
KENICHI NAKAJIMA<sup>1</sup>, Keisuke Nansai<sup>1</sup>, Ichiro Daigo<sup>2</sup>, Shinsuke Murakami<sup>2</sup>, Kazuyo Matsubae<sup>3</sup>  
*<sup>1</sup>National Institute for Environmental Studies, Japan; <sup>2</sup>The University of Tokyo, Japan; <sup>3</sup>Tohoku University, Japan*
- 04.30 pm **Potential material efficiency improvements via PSS: The case study of a truck manufacturer and one of its component suppliers**  
DEREK LYLE DIENER, Anne-Marie Tillman  
*Chalmers-Environmental Systems Analysis, Sweden*
- 04.45 pm **LCM knowhow in collective action and comprehensive metric: A booster for circular economy?**  
STÉPHANE MOREL<sup>2</sup>, Rémi Beulque<sup>1,2</sup>  
*<sup>1</sup>Mines Paristech, France; <sup>2</sup>Renault sas, France*
- 05.00 pm **Sustainability Assessment of value creation processes in manufacturing – challenges and approaches for the use case of pedelecs**  
René Scheumann<sup>1</sup>, Sabrina Neugebauer<sup>1</sup>, Ya-Ju Chang<sup>1</sup>, Kirana Wolf<sup>1</sup>, Johannes Seidel<sup>2</sup>, Sebastian Schenker<sup>3</sup>, Ralf Borndörfer<sup>3</sup>, Günther Seliger<sup>2</sup>, Matthias Finkbeiner<sup>1</sup>, NIKOLAY MINKOV<sup>1</sup>  
*<sup>1</sup>Technische Universität Berlin, Chair of Sustainable Enigneering, Germany; <sup>2</sup>Technische Universität Berlin, Chair of Assembly Technology and Factory Management, Germany; <sup>3</sup>Zuse Institute Berlin, Department Optimization, Germany*
- 05.15 pm **“Sustainable Solution Steering”: BASF’s portfolio segmentation methodology to monitor and steer the portfolio based on sustainability needs in the value chain**  
TALKE FRIEDERIKE SCHAFFFRANNEK, Dr. Florian Feigs, Dr. Andreas Kicherer  
*BASF SE, Germany*





## LCM FOR TRANSPORT AND MOBILITY - II

LOCATION: AMPHI B

CHAIRS: STEPHAN KRINKE, VOLKSWAGEN AG, GERMANY  
LUDOVIC DARIOL, AIRBUS DEFENCE AND SPACE, FRANCE

04.00 pm **Leveraging IMDS to support environmental and risk analysis within the automotive supply chain**

THOMAS FRUEHBUSS<sup>1</sup>, Will Martin<sup>2</sup>  
<sup>1</sup>Hewlett-Packard GmbH, Germany; <sup>2</sup>Granta Design Ltd., UK

04.15 pm **How to include noise impacts in car and lorry fleet management with ecological scarcity 2013**

Rolf Frischknecht, Sybille Buesser Knoepfel, LAURA TSCHUEMPERLIN  
treeze Ltd., Switzerland

04.30 pm **New recycling technologies by Continental to improve the tire life cycle balance sheet**

ANDREAS TOPP, Konstantin Efimov, Shreyas Naik  
Continental Reifen Deutschland GmbH, Germany

04.45 pm **Geopolitical related supply risk as a new indicator for sustainable supply chain management under the life cycle sustainability assessment framework: The case of electric vehicles**

ESKINDER D. GEMECHU<sup>1</sup>, Guido Sonnemann<sup>1</sup>, Steven B. Young<sup>2</sup>  
<sup>1</sup>CyVi, ISM, University of Bordeaux, France; <sup>2</sup>SEED, University of Waterloo, Canada

05.00 pm **Spatial distribution of LCA results for the use phase of extended range electric vehicles**

Laura Brethauer<sup>1</sup>, Michael Baumann<sup>1</sup>, Elvira Ockel<sup>2</sup>, Sarah Homolka<sup>2</sup>, ULRIKE BOS<sup>1</sup>  
<sup>1</sup>University of Stuttgart, Chair of Building Physics, Dept. Life Cycle Engineering (GaBi), Germany;  
<sup>2</sup>Fraunhofer Institute for Building Physics, Dept. Life Cycle Engineering (GaBi), Germany

05.15 pm **Evaluation of environmental impacts and cost development of future fuel cell drivetrains in passenger cars**

SIMONE I. EHRENBERGER, Enver Doruk Özdemir, Sebastian Gerner, Markus Keller  
German Aerospace Centre, Germany

## GENERATING DATA: LCA DATABASES AND DATASETS QUALITY, ASSURANCE AND VERIFICATION

LOCATION: AMPHI C

CHAIRS: ANDREAS CIROTH, GREENDELTA, GERMANY  
BRUCE VIGON, SETAC, UNITED STATES OF AMERICA

04.00 pm **Developing a Quality Management System for LCA data sets – the case of the LCA-CIRAD platform for tropical products**

YANNICK BIARD<sup>1,2</sup>, Claudine Basset-Mens<sup>1,2</sup>, Cécile Bessou<sup>3,2</sup>, Thierry Tran<sup>4,2</sup>, Anthony Benoist<sup>5,2</sup>  
<sup>1</sup>Cirad - UPR Hortsys - Montpellier - France; <sup>2</sup>ELSA - Montpellier - France; <sup>3</sup>Cirad - UPR Systèmes de Pérennes - Montpellier - France; <sup>4</sup>Cirad - UMR Qualisud - Bangkok - Thailande; <sup>5</sup>Cirad - UPR BioWooEB - Montpellier - France

04.15 pm **Simplifying data creation and use in large LCI databases**

GREGOR WERNET  
Ecoinvent, Switzerland

04.30 pm **Transforming ecoinvent for fun and profit**

CHRISTOPHER L MUTEL  
Paul Scherrer Institute, Switzerland

04.45 pm **Towards a global network of interoperable LCA databases**

LLORENÇ MILÀ I CANALS<sup>1</sup>, Anne Claire Asselin-Balencon<sup>1</sup>, Simon Liu<sup>2</sup>, Wesley Ingwersen<sup>3</sup>, Ted Macdonald<sup>4</sup>  
<sup>1</sup>UNEP, France; <sup>2</sup>USDA, Riverdale, Maryland 20737, USA; <sup>3</sup>U.S. Environmental Protection Agency, National Risk Management Research Laboratory, Cincinnati, OH, USA; <sup>4</sup>U.S. Environmental Protection Agency, Office of International Affairs, Washington D.C, 20460, USA

05.00 pm **eFootprint / CLCD for LCA study and database development @ internet age**

Ping Hou<sup>1</sup>, HONGTAO WANG<sup>2</sup>, Yi Yang<sup>1</sup>  
<sup>1</sup>IKE Environmental Technology, College of Architecture and Environment, Sichuan University, China

05.15 pm **Adapting of Life Cycle Inventories of agricultural products to regional contexts: The case of Brazilian soybeans**

CLAUDIA VON FRIHAUF<sup>1</sup>, Gil Anderi da Silva<sup>1</sup>, Marília Ieda da S. Folegatti Matsuura<sup>2</sup>  
<sup>1</sup>University of São Paulo - USP, Brazil; <sup>2</sup>Embrapa Environment, Brazil



**QUANTIFYING AND COMMUNICATING AVOIDED EMISSIONS: PANEL AND DISCUSSION ON STANDARDIZATION EFFORTS**

LOCATION: ROOM E

CHAIRS: CYNTHIA EDEN CUMMIS, WRI, UNITED STATES OF AMERICA  
WILLIAM P FLANAGAN, GENERAL ELECTRIC, UNITED STATES OF AMERICA

- 04.00 pm **Assessment of Avoided Emissions of ICT Solutions and Organization**  
HIROKO IOKA, Seiya Yamazaki, Takafumi Hashitani  
*Fujitsu Ltd., Japan*
- 04.15 pm **Guideline of estimating the contribution to the avoided emissions of products from life cycle perspective**  
ATSUSHI INABA<sup>1</sup>, Shoichiro Tsuruta<sup>2</sup>, Maki Ogura<sup>3</sup>, Masaharu Motoshita<sup>4</sup>  
*Kogakuin University; <sup>2</sup>Japan Environmental Management Association for Industry; <sup>3</sup>Pacific Consultants, Co., LTD.; <sup>4</sup>Natioanal Institute of Advanced Industrial Science and Technology, Japan*
- 04.30 pm **Understanding the context of improvements - from greenwash to planet savers**  
JANNICK HOEJRUP SCHMIDT  
*2.-0 LCA consultants, Denmark*
- 04.45 pm **Addressing the Avoided Emissions Challenge: Guidelines from the Chemical Industry**  
ANNEMARIE KERKHOF  
*Ecofys, Netherlands*
- 05.00 pm **Quantifying avoided emissions - big opportunities and big risks**  
GERALD REBITZER  
*Amcor, Switzerland*
- 05.15 pm **Discussion**

**WHAT PROCESS FROM RESEARCH TO PRACTICE?**

LOCATION: ROOM F

CHAIRS: URS SCHENKER, NESTLÉ RESEARCH CENTER, SWITZERLAND  
SANGWON SUH, UNIVERSITY OF CALIFORNIA, SANTA BARBARA, UNITED STATES OF AMERICA

- 04.00 pm **Transferring LCA research into industry through customised LCA tools – an example from the Australian sugar industry**  
MARGUERITE A RENOUF  
*University of Queensland, Australia*
- 04.15 pm **Call for action from chemical industry to environmental science**  
ULLA LETINOIS<sup>1</sup>, Henk Bosch<sup>1</sup>, Isabelle Speigel<sup>2</sup>, Andrea Brown<sup>3</sup>  
*<sup>1</sup>DSM, Netherlands; <sup>2</sup>PwC, France; <sup>3</sup>WBCSD, Switzerland*
- 04.30 pm **Addressing thermal pollution in LCA: From an industrial need to an operational tool through a research project**  
JEAN-BAPTISTE BAYART<sup>1</sup>, Justin Boucher<sup>2</sup>, Dominique Corbisier<sup>3</sup>, Elsa Favrot<sup>3</sup>, Marcial Vargas<sup>1</sup>, Stephan Pfister<sup>2</sup>, Anne Prieur-Vernat<sup>3</sup>  
*<sup>1</sup>Quantis, France; <sup>2</sup>ETH Zurich, Switzerland; <sup>3</sup>GDF Suez, France*
- 04.45 pm **Enhancing transferability of a technology by joining efforts between concerned research and industry stakeholders during data collection and inventory building for LCA**  
ELISE NAVEAUX  
*CEA, France*
- 05.00 pm **SEARRCH – A converging scientific and stakeholders approach to design the framework for sustainability evaluation of Carbon fibers reinforced polymer recycling industry**  
ANNE-LAURE CADENE<sup>1</sup>, Leslie Jacquemin<sup>1</sup>, Catherine Azzaro-Pantel<sup>2</sup>, Luc Rouge<sup>3</sup>, Guido Sonnemann<sup>4</sup>  
*<sup>1</sup>Altran Research, France; <sup>2</sup>Université de Toulouse, France; <sup>3</sup>Toulouse Business School, France; <sup>4</sup>CyVi, ISM, University of Bordeaux, France*
- 05.15 pm **Discussion**



# Schedule

WEDNESDAY, SEPTEMBER 2

09.00 am – 10.30 am

COFFEE BREAK AND POSTER SESSION

10.30 am – 11.00 am

## LCM FOR BUILDINGS: MATERIALS AND DESIGN

LOCATION: AMPHI A

CHAIRS: JOAN RIERADEVALL, UNIVERSITAT AUTÓNOMA DE BARCELONA, SPAIN  
ROCÍO FERNÁNDEZ FLORES, ACCIONA INFRAESTRUCTURAS, SPAIN

09.00 am **Environmental impact considerations of building materials under different methodological approaches**  
CHRISTIAN SOLLI, Anne Sigrid Nordby, Mie Fuglseth, Oddbjørn Dahlstrøm, Christofer Skaar  
*Asplan Viak AS, Norway*

09.15 am **Low-carbon buildings: How representative are LCA results at early design stages?**  
DIEGO PEÑALOZA<sup>1</sup>, Nadia Al-Ayish<sup>2</sup>  
*<sup>1</sup>Technical Research Institute of Sweden, Sweden; <sup>2</sup>Swedish Cement and Concrete Research Institute, Sweden*

09.30 am **Life cycle assessment of urban housing stocks: Development of a GIS-based framework**  
ALESSIO MASTRUCCI, Antonino Marvuglia, Enrico Benetto, Ulrich Leopold  
*Luxembourg Institute of Science and Technology, Luxembourg*

09.45 am **Modeling LCA of urban water systems: Public infrastructure management in link with water resource availability**  
PHILIPPE LOUBET<sup>1</sup>, Philippe Roux<sup>2</sup>  
*<sup>1</sup>CyVi, ISM, Bordeaux INP, France; <sup>2</sup>UMR ITAP, pôle ELSA, Irstea Montpellier, France*

10.00 am **Are passive houses really efficient across the whole Life Cycle? Case study of environmental impacts induced by the choice of building materials in energetically efficient buildings**  
FREDERIC BOURY<sup>1</sup>, Marie Darul<sup>2</sup>  
*<sup>1</sup>Symoé, France; <sup>2</sup>cd2e, France*

10.15 am **Discussion**



## FOSTERING THE IMPLEMENTATION OF LCA IN THE FOOD AND BEVERAGE SECTOR

LOCATION: AMPHI B

CHAIRS: SEBASTIEN HUMBERT, QUANTIS, SWITZERLAND  
YING WANG, INNOVATION CENTER FOR U.S. DAIRY, UNITED STATES OF AMERICA

- 09.00 am **Chemistry meets Nutrition – Amino Acids as advanced technology to improve sustainability of livestock production**  
MICHAEL BINDER, Viktoria Scherer, Ranjan Fletcher, Thomas Kaufmann  
*Evonik Industries AG, Germany*
- 09.15 am **Life-cycle assessment on a starch facility in South Africa**  
KEVIN G. HARDING, Mpho Macingwane  
*Industrial and Mining Water Research Unit (IMWaRU), School of Chemical and Metallurgical Engineering, University of the Witwatersrand, Johannesburg, South Africa*
- 09.30 am **Life Cycle Management and the U.S. dairy sustainability commitment: Assessing, measuring, mitigating, and communicating the industry's environmental impact**  
YING WANG  
*Innovation Center for U.S. Dairy, United States of America*
- 09.45 am **Strengths and limitations of LCA in agricultural products eco-conception: Analysis of an agro-ecological strategy in vine-growing**  
GILDAS MEVEL<sup>1</sup>, Pierre Compere<sup>1</sup>, Philippe Lorenzati<sup>2</sup>  
*<sup>1</sup>InVivo AgroSolutions, France; <sup>2</sup>Qualisol, France*
- 10.00 am **Addressing the complexity in LCM of food systems – an integrated approach**  
ULF GUNNAR SONESSON, Katarina Lorentzon  
*SP Technical Research Institute of Sweden, Sweden*
- 10.15 am **Discussion**

## MAINSTREAMING LCM IN PUBLIC POLICY - II

LOCATION: AMPHI C

CHAIRS: CLARE BROADBENT, WORLD STEEL ASSOCIATION, BELGIUM  
MICHELE GALATOLA, EUROPEAN COMMISSION

- 09.00 am **Western Cape Regional Resource Flow Model: Environmentally Extended Input Output Analysis to Inform Public Policy**  
PIETER FREDERIK JANSE VAN VUUREN<sup>1</sup>, Catherine B Pineo<sup>1</sup>, Lauren Basson<sup>1</sup>, Jim Petrie<sup>2</sup>, Chris Millson<sup>1</sup>  
*<sup>1</sup>GreenCape, Cape Town, South Africa; <sup>2</sup>Department of Economic Development and Tourism, Western Cape Government, Cape Town, South Africa*
- 09.15 am **Promising options for integrating LCA in policy**  
Annekatriin Lehmann<sup>1</sup>, MATTHIAS FINKBEINER<sup>1</sup>, Clare Broadbent<sup>2</sup>, Russ T. Balzer<sup>3</sup>  
*<sup>1</sup>Technische Universität Berlin, Germany; <sup>2</sup>World Steel Association, Belgium; <sup>3</sup>WorldAutoSteel, USA*
- 09.30 am **Road to zero: Myth or reality?**  
HELENE TEULON, Gentiane Gastaldi  
*GINGKO 21, France*
- 09.45 am **From Cleaner Production To Life Cycle Management In Chile**  
Cristián Emhart<sup>1</sup>, Alejandro Florenzano<sup>1</sup>, Nicolás Westenenk<sup>2</sup>, Sebastián Carvallo<sup>2</sup>, ANDRÉS ROLÓN<sup>1</sup>  
*<sup>1</sup>Fundacion Chile, Chile; <sup>2</sup>Consejo Nacional de Producción Limpia, Chile;*
- 10.00 am **LCA in agricultural policy making: Comparing domestic and imported food**  
THOMAS JAN NEMECEK, Maria Bystricky, Martina Alig, Gérard Gaillard  
*Agroscope, Switzerland*
- 10.15 am **Discussion**



## PRACTICES FOR HOTSPOTS ANALYSIS AND PRODUCT SUSTAINABILITY

LOCATION: ROOM E

CHAIRS: JAMES FAVA, THINKSTEP, UNITED STATES OF AMERICA  
MARK ANDREW BARTHEL, WRAP, UNITED KINGDOM

09.00 am **Introduction to Hotspot Analysis & learnings from UNEP/SETAC Life Cycle Initiative's Mapping of Hotspot Analysis methodologies**  
James Fava, Mark Barthel (Session chairs)

09.15 am **The use of life cycle approaches in industry – Experiences, best practices and open questions from various sectors**  
Florian Ansgar Jaeger<sup>1</sup>, Lea Maria Kemper<sup>2</sup>, Martin Kirchner<sup>3</sup>, Stephan Krinke<sup>4</sup>, NIKOLAJ OTTE<sup>5</sup>, Peter Saling<sup>6</sup>, Urs Schenker<sup>7</sup>, Daniel Schleifer<sup>8</sup>, Diederik Schowanek<sup>9</sup>, Bettina M. von Streit<sup>10</sup>  
<sup>1</sup>Siemens AG; <sup>2</sup>Beiersdorf AG; <sup>3</sup>Evonik Industries AG; <sup>4</sup>Volkswagen AG; <sup>5</sup>Henkel AG & Co. KGaA; <sup>6</sup>BASF SE; <sup>7</sup>Nestlé Research Center; <sup>8</sup>ThyssenKrupp AG; <sup>9</sup>Procter & Gamble; <sup>10</sup>Bayer Technology Services GmbH

9.30 am **Session chairs will facilitate the solicitation of input from the audience on questions raised by the speakers and their own questions from their work of Mapping of Hotspot Analysis Approaches in collaboration with UNEP**

## HOW COLLABORATIVE RESEARCH ON LIFE CYCLE MAY IMPROVE LCA PRACTICES FOR BUSINESSES: SCORELCA FEEDBACK

LOCATION: ROOM F

CHAIRS: PHILIPPE OSSET, SCORELCA, FRANCE  
JADE GARCIA, SCORELCA, FRANCE

09.00 am **How to integrate the spatial dimension in LCA**  
CECILE QUERLEU<sup>1</sup>, Laure Patouillard<sup>1,2</sup>, Cecile Bulle<sup>2</sup>, Dominique Maxime<sup>2</sup>, Valerie Patreau<sup>2</sup>, Jade Garcia<sup>3</sup>, Cecile Beaudard<sup>3</sup>  
<sup>1</sup>IFP Energies nouvelles, France; <sup>2</sup>CIRAIG, Canada; <sup>3</sup>SCORELCA, France

09.15 am **Initial specification of data quality in LCA**  
Isabelle Descos<sup>1</sup>, BERNARD DE CAEVEL<sup>1</sup>, Marc Andree Wolf<sup>2</sup>, Cécile Beaudard<sup>3</sup>, Jade Garcia<sup>3</sup>  
<sup>1</sup>RDC Environment, Belgium; <sup>2</sup>Maki Consulting, Germany; <sup>3</sup>SCORE LCA, France

09.30 am **Circular economy: Concepts and evaluation methods**  
BENOÎT VERZAT<sup>2</sup>, Charlotte Thevenet<sup>4</sup>, Marcial Vargas Gonzales<sup>3</sup>, Ariane Bussard<sup>4</sup>, Guillaume Masard<sup>4</sup>, Cécile Beaudard<sup>1</sup>, Jade Garcia<sup>1</sup>  
<sup>1</sup>SCORELCA, France; <sup>2</sup>QUANTIS Lyon, France; <sup>3</sup>QUANTIS Paris, France; <sup>4</sup>SOFIES SAS, FRANCE

09.45 am **Coupling GIS and LCA. What are the possible outcomes for companies?**  
Florent Fabien Querini<sup>1</sup>, ELORRI IGOS<sup>1</sup>, Alessio Mastrucci<sup>1</sup>, Enrico Benetto<sup>1</sup>, Cécile Beaudard<sup>2</sup>, Jade Garcia<sup>2</sup>  
<sup>1</sup>Luxembourg Institute of Science & Technology (LIST), Luxembourg; <sup>2</sup>SCORELCA, France

10.00 am **Discussion**



# Schedule

WEDNESDAY, SEPTEMBER 2

11.00 am – 12.30 pm

LUNCH AND POSTER SESSION || THEMATIC LUNCH SESSION BY QUANTIS

12.30 pm – 02.00 pm

## DEALING WITH FOOD WASTE IN LCA AND LCM

LOCATION: AMPHI A

CHAIRS: STEVEN B YOUNG, UNIVERSITY OF WATERLOO, CANADA  
MARTIN BAITZ, THINKSTEP, GERMANY

- 11.00 am **ONE TWO WE – Life cycle management in canteens together with suppliers, customers and guests**  
NIELS JUNGBLUTH, Regula Keller  
*ESU-services Ltd., Switzerland*
- 11.15 am **Quantification of environmental impacts (carbon footprint, water footprint and land use) of lost and wasted food at global level**  
Olivier Jan, CLÉMENT TOSTIVINT, Perrine Lavelle  
*Deloitte, France*
- 11.30 am **LCM for Food and Beverages**  
Daesoo Kim<sup>1</sup>, GREG THOMA<sup>1</sup>, Shalene McNeill<sup>2</sup>  
*<sup>1</sup>University of Arkansas, United States of America; <sup>2</sup>National Cattlemen's Beef Association, United States of America*
- 11.45 am **Evaluating food waste prevention strategies by means of Input-Output LCA**  
Massimo Pizzol, Manuel Campos, Paulo Silva, JANNICK SCHMIDT  
*Aalborg University, Denmark*
- 12.00 am **Food wastage prevention: What are we really avoiding? – an LCA-based approach**  
ALBA CÁNOVAS CREUS, Anna Bernstad, Rogerio Valle  
*SAGE/COPPE/UFRJ, Brazil*
- 12.15 am **Discussion**



**FROM BUILDING DESIGN TO DISTRICT EVALUATION WITH LCM**

LOCATION: AMPHI B

CHAIRS: HELENE TEULON, GINGKO 21, FRANCE  
NICOLAS SALMON, NOBATEK, FRANCE

- 11.00 am **Application of life cycle assessment in urban projects**  
Bruno Peuportier, CHARLOTTE ROUX  
*ARMINES, France*
- 11.15 am **More Value, Less Impact: Sustainable Value Creation in Construction Industry**  
CLARA FIÚZA, Catalina Estevez, Mark Schneider  
*Sika Services AG, Switzerland*
- 11.30 am **Lessons learned from establishing an environmental benchmark for residential buildings**  
Rolf Frischknecht<sup>1</sup>, Franziska Wyss<sup>1</sup>, Katrin Pfaeffli<sup>2</sup>, Viola John<sup>3</sup>, LAURA TSCHUEMPERLIN<sup>1</sup>  
*<sup>1</sup>treeze Ltd., Switzerland; <sup>2</sup>Preisig Pfäffli Architekten, Switzerland; <sup>3</sup>ETH Zurich, Chair of Sustainable Construction, Switzerland*
- 11.45 am **Environmental and social evaluation of the new district of Txomin Enea (San Sebastian) and investigation of optimisation scenarios**  
Xabat Oregi Isasi<sup>1</sup>, Lara Mabe Gomez<sup>1</sup>, MAXIME POUSSE<sup>2</sup>, Marc Lotteau<sup>2</sup>, Jon Gastañares Lizarriturri<sup>3</sup>  
*<sup>1</sup>Tecnalia Research & Innovation, Spain; <sup>2</sup>NOBATEK, France; <sup>3</sup>San Sebastian City Council, Spain*
- 12.00 pm **The Norpac life cycle management approach: Step by step assessment of different design building stages by LC Manager**  
Romain Charriere, LAURE DUCOULOMBIER  
*Norpac, France*
- 12.15 pm **Discussion**

**LCM AND THE END OF LIFE OF PRODUCTS AND MATERIALS - I**

LOCATION: AMPHI C

CHAIRS: ALLAN ASTRUP JENSEN, NIPSECT, DENMARK  
GERALD REBITZER, AMCOR, SWITZERLAND

- 11.00 am **Obstacles and opportunities to mainstream Life Cycle Management of End of Life sector throughout supply chains: Lessons learnt in Northern France**  
Marc Haquette<sup>1</sup>, NAEEM ADIBI<sup>2</sup>, Vanessa Pasquet<sup>2</sup>  
*<sup>1</sup>cd2e, France; <sup>2</sup>[avniR] by cd2e, France*
- 11.15 am **Integration of Life Cycle Assessment and Multi-Criteria Analysis for improved policy guidance in organic waste management**  
ANA CAROLINA ANGELO<sup>1</sup>, Anna Bernstad<sup>2</sup>, João Carlos Clímaco<sup>3</sup>, Rogerio Valle<sup>4</sup>  
*<sup>1</sup>COPPE UFRJ, Brazil; <sup>2</sup>COPPE UFRJ, Brazil; <sup>3</sup>University of Coimbra, Portugal; <sup>4</sup>COPPE UFRJ, Brazil*
- 11.30 am **LCA and eco-efficiency of advanced wastewater treatment to remove micro pollutants**  
FREDY DINKEL<sup>1</sup>, Thomas Kägi<sup>1</sup>, Rita Hochstrat<sup>2</sup>, Thomas Wintgens<sup>2</sup>  
*<sup>1</sup>Carbotech and FHNW, Basel, Switzerland; <sup>2</sup>University of applied science North Western Switzerland, Muttenz, Switzerland*
- 11.45 am **Allocation formula for recycling and co-production in all product sectors**  
DIEUWERTJE SCHRIJVERS<sup>1,2</sup>, Guido Sonnemann<sup>1,2</sup>  
*<sup>1</sup>Cyvi, ISM, University of Bordeaux, France; <sup>2</sup>ISM, CNRS, France*
- 12.00 pm **Design for recycling at Steelcase: Expertise and lessons learned from a pro-active office furniture company**  
SEBASTIEN ZINCK<sup>1</sup>, Edouard Carteron<sup>1</sup>, Raphael Stermann<sup>2</sup>  
*<sup>1</sup>Steelcase, France; <sup>2</sup>Steelcase, Germany*
- 12.15 pm **Leveraging Public Procurement for Management of End-of-Life Products in India**  
SANJAY KUMAR  
*DFCCIL, Ministry of Railway, Government of India., India*



**BUSINESS-GOVERNMENT DIALOGUE ON LIFE CYCLE THINKING FOR SUSTAINABILITY**

LOCATION: ROOM E

CHAIRS: LLORENC MILA I CANALS, UNEP, FRANCE  
ASHOK KUNAR PAVADIA, MINISTRY OF HOME AFFAIRS, GOVERNMENT OF INDIA

11.00 am **Introduction**

11.15 am **LCM implementation through partnerships between public and private sectors**

OSCAR ALBERTO VARGAS MORENO  
*Secretaría Distrital de Ambiente, Colombia*

11.30 am **National dialogue between business and government on Environmental Footprint to support development and implementation**

Sara Palander<sup>1</sup>, Eva Ahlner<sup>2</sup>, Anita Lundström<sup>2</sup>, Katarina Lorentzon<sup>3</sup>, ELLEN RIISE<sup>4</sup>, Karin Sanne<sup>5</sup>, Klas Hallberg<sup>5</sup>, Elin Eriksson<sup>6</sup>  
*<sup>1</sup>the Swedish Life Cycle Center/Chalmers University of Technology, Sweden; <sup>2</sup>Swedish Environmental Protection Agency; <sup>3</sup>SP Technical Research Institute of Sweden, Food and Bioscience; <sup>4</sup>SCA Hygiene Products AB; <sup>5</sup>AkzoNobel; <sup>6</sup>IVL Swedish Environmental Research Institute*

11.45 am **Industry perspective to the implementation of Sustainable Production and Consumption tools in Mexico**

NYDIA SUPPEN  
*Center For Lca And Sustainable Design, Mexico*

12.00 pm **Collaborative Activities between Business Sectors and Policy Makers for Sustainable Consumption and Production in Japan**

MASAHIKO HIRAO<sup>1,2</sup>  
*<sup>1</sup>The University of Tokyo, Japan; <sup>2</sup>Green Purchasing Network, Japan*

12.15 pm **Discussion**

**PRACTICAL APPLICATIONS OF ADVANCED LCA TO LCM - I**

LOCATION: ROOM F

CHAIRS: STEPHAN PFISTER, ETH ZURICH, SWITZERLAND  
ANNIE LEVASSEUR, CIRAI, ÉCOLE POLYTECHNIQUE DE MONTRÉAL, CANADA

11.00 am **Regionalized assessment using LC IMPACT and ecoinvent: Case study of electricity production**

CHRISTOPHER L MUTEL  
*Paul Scherrer Institute, Switzerland*

11.15 am **Refining the spatial resolution of water footprint characterization factors to identify new Life Cycle Management levers: Application to the water resources used for drinking water production in Paris area**

JEAN-BAPTISTE BAYART<sup>1</sup>, Denis Chanteur<sup>2</sup>, Philippe Loubet<sup>3</sup>, Anne Lang<sup>4</sup>  
*<sup>1</sup>Quantis, France; <sup>2</sup>Veolia Eau d'Ile de France, France; <sup>3</sup>CyVi, ISM, Bordeaux INP, France; <sup>4</sup>Syndicat des Eaux d'Ile de France, France*

11.30 am **Regionalization of water consumption and the effect on water footprint results for hydro-power**

INGUNN SAUR MODAHL<sup>1</sup>, Hanne Lerche Raadal<sup>1</sup>, Tor Haakon Bakken<sup>2</sup>, Kolbjørn Engeland<sup>3</sup>  
*<sup>1</sup>Ostfold Research, Norway; <sup>2</sup>Norwegian University of Science and Technology (NTNU), Norway; <sup>3</sup>University of Oslo, Norway*

11.45 am **Regionalised LCIA implementation in LCA software for decision-making analysis in LCM**

CRISTINA RODRÍGUEZ, Andreas Ciroth  
*GreenDelta GmbH, Germany*

12.00 pm **Inventories regionalization: The Brazilian experience on agribusiness**

MARILIA IEDA DA S. FOLEGATTI MATSUURA<sup>1</sup>, Fernando Rodrigues Teixeira Dias<sup>2</sup>, Juliana Ferreira Picoli<sup>3</sup>, Cassia Maria Lie Ugaya<sup>4</sup>, Maria Clea Brito de Figueiredo<sup>5</sup>  
*<sup>1</sup>Embrapa Meio Ambiente, Brazil; <sup>2</sup>Embrapa Pantanal, Brazil; <sup>3</sup>Unicamp, Brazil; <sup>4</sup>Universidade Federal do Parana, Brazil; <sup>5</sup>Embrapa Agroindustria Tropical, Brazil*

12.15 pm **Discussion**





# Schedule

WEDNESDAY, SEPTEMBER 2

02.00 pm – 03.00 pm

WEDNESDAY  
02.00 pm – 03.00 pm

## LCM AND COMMUNICATION

LOCATION: AMPHI A

CHAIRS: ANNE-MARIE TILLMAN, CHALMERS UNIVERSITY OF TECHNOLOGY, SWEDEN  
MARY ANN CURRAN, BAMAC, LTD., UNITED STATES OF AMERICA

02.00 pm **A Communication Tool for Sales Forces in BtoB Market**

Xavier Durieux<sup>1</sup>, HELENE TEULON<sup>2</sup>, Gentiane Gastaldi<sup>2</sup>

<sup>1</sup>Orange Business Services, France; <sup>2</sup>GINGKO 21, France

02.15 pm **Sustainability-related communication and decision-making in design of automotive production lines**

NIKI BEY, Lucía I. Clemente Márquez, Jan-Markus Rödger

Technical University of Denmark, Denmark

02.30 pm **How to communicate and drive LCM thinking – a case study with the global manganese industry**

Mohammed Ali<sup>1</sup>, LUKE WESTFALL<sup>1</sup>, Julia Davourie<sup>1</sup>, Doreen Mc Gough<sup>2</sup>

<sup>1</sup>Hatch Ltd., Canada; <sup>2</sup>International Manganese Institute, France

02.45 pm **From the Functional Unit to the retailing unit: ADEME proposal to allocate the impacts of the goods and services involved in the use phase to the product targeted for labelling**

OLIVIER RETHORE

ADEME, France



**PRACTICAL APPLICATIONS OF ADVANCED LCA TO LCM - II**

LOCATION: AMPHI B

CHAIRS: STEPHAN PFISTER, ETH ZURICH, SWITZERLAND  
ESKINDER DEMISSE GEMECHU, UNIVERSITY OF BORDEAUX, FRANCE

- 02.00 pm **Dynamic Life Cycle Assessment modeling of the use phase: The case of a school**  
EMIL POPOVICI, Enrico Benetto  
*Luxembourg Institute of Science and Technology, Luxembourg*
- 02.15 pm **Geopolitical trading risks in petrochemical industries of the carbon fiber supply chain**  
Eskinder D. Gemechu<sup>1</sup>, CHRISTOPH HELBIG<sup>2</sup>, Baptiste Pillain<sup>1</sup>, Andrea Thorenz<sup>2</sup>, Axel Tuma<sup>2</sup>,  
Guido Sonnemann<sup>1</sup>  
*<sup>1</sup>CyVi, ISM, University of Bordeaux, France; <sup>2</sup>Resource Lab, University of Augsburg, Germany*
- 02.30 pm **Improving biogas value chains through actor collaboration and life cycle models**  
KARI-ANNE LYNG, Ingunn Saur Modahl, Aina Stensgård  
*Østfoldforskning, Norway*
- 02.45 pm **Discussion**

**LCM AND THE END OF LIFE OF PRODUCTS AND MATERIALS - II**

LOCATION: AMPHI C

CHAIRS: ALLAN ASTRUP JENSEN, NIPSECT, DENMARK  
EMMA REX, SP TECHNICAL RESEARCH INSTITUTE OF SWEDEN, SWEDEN

- 02.00 pm **Comparison of two End-of-Life approaches in the background of LCA – PEF formula vs. Multi-Recycling-Approach**  
MARCO MENGARELLI<sup>1</sup>, Kirana Wolf<sup>2</sup>, Sabrina Neugebauer<sup>2</sup>, Matthias Finkbeiner<sup>2</sup>, Michele Germani<sup>1</sup>  
*<sup>1</sup>Università Politecnica delle Marche, Italy; <sup>2</sup>Technische Universitae Berlin, Germany*
- 02.15 pm **Where should we be using recovered PET? A dynamic life cycle model of PET flows in the US economy for environmental decision support for water bottle manufacturers**  
Pascal Lesage<sup>1</sup>, Pierre-Olivier Hays<sup>1</sup>, Urs Schenker<sup>2</sup>, MANUELE MARGNI<sup>1</sup>  
*<sup>1</sup>CIRAIG, Polytechnique Montréal, Canada; <sup>2</sup>Nestlé Research Center*
- 02.30 pm **An ISO-conform family of End-of-Life formulas for life cycle based product declarations and ecodesign purposes**  
MARC-ANDREE WOLF<sup>1</sup>, Kurt Buxmann<sup>2</sup>, Christian Leroy<sup>3</sup>, Kirana Chomkhamsri<sup>4</sup>, Staf Laget<sup>5</sup>  
*<sup>1</sup>maki Consulting, Germany; <sup>2</sup>Private consultant, Switzerland; <sup>3</sup>European Aluminium Association, Belgium; <sup>4</sup>P.P.P. Intertrader, Thailand; <sup>5</sup>Umicore, Belgium*
- 02.45 pm **Discussion**



## MAINSTREAMING LCM AROUND THE WORLD THROUGH ECOINNOVATION

LOCATION: ROOM E

CHAIRS: SONIA VALDIVIA, WOLRD RESOURCES FORUM, SWITZERLAND  
PHILIP STROTHMANN, FSLCI, GERMANY

- 02.00 pm **A collective contribution to improve ecoinnovation management inside companies**  
Edouard Carteron<sup>1</sup>, ANDRÉ FALCHI<sup>2</sup>, Gentiane Gastaldi<sup>3</sup>, Christian Longet<sup>4</sup>  
*<sup>1</sup>Steelcase, France; <sup>2</sup>Etxeterra, France; <sup>3</sup>Gingko 21, France; <sup>4</sup>Parkeon, France*
- 02.10 pm **Original Methodology based on LCA for Environmental Assessment of products**  
VÉRONIQUE ANDRIES, Mélanie Bordignon, Marie-Jeanne Robert  
*Alstom Transport, France*
- 02.20 pm **The potential of LCM to mainstream bottom-up eco-innovation and alternative thinking**  
MICHELE DE ROSA<sup>1</sup>, Agneta Ghose<sup>2</sup>  
*<sup>1</sup>Aarhus University, Department of Agroecology, Denmark; <sup>2</sup>Massey University, Institute of Agriculture and Environment, New Zealand*
- 02.30 pm **Ecodesign and Ecoinnovation in Latin America**  
NYDIA SUPPEN<sup>1</sup>, Alejandro Chacon<sup>2</sup>  
*<sup>1</sup>Center for LCA and sustainable design, Mexico; <sup>2</sup>Ecodiseño Chile, Chile*
- 02.40 pm **Assessing circular economy approaches by Life Cycle Management (LCM)**  
MELANIE GUITON, Enrico Benetto, Alina Belousova  
*Luxembourg Institute of Science and Technology, Luxembourg*
- 02.50 pm **Discussion**

## LCM FOR TEXTILES AND LEATHER PRODUCTS

LOCATION: ROOM F

CHAIRS: CHRISTÈLE MERTER, HAPPYCHIC, FRANCE  
ANNE PERWUELZ, ENSAIT, FRANCE

- 02.00 pm **A distributed system for traceability and sustainability assessment of leather shoes supply chains**  
Michele Germani, MARCO MARCONI, Eugenia Marilungo, Alessandra Papetti  
*Università Politecnica delle Marche, Italy*
- 02.15 pm **Mainstreaming Life Cycle Management in Indonesian Small and Medium Enterprise for a Sustainable Batik Textile**  
GHITA YOSHANTI<sup>1,2</sup>, Kiyoshi Dowaki<sup>2</sup>  
*<sup>1</sup>School of Business and Management ITB, Indonesia; <sup>2</sup>Tokyo University of Science (TUS), Japan*
- 02.30 pm **Improving a textile supply chain by assessing the social impacts of a textile product**  
MARIE VUAILLAT, Stéphane Le Pochat  
*EVEA, France*
- 02.30 pm **Using the planetary boundaries for evaluating interventions for impact reduction in the clothing industry**  
Gustav Sandin<sup>1</sup>, Sandra Roos<sup>2</sup>, BAHAREH ZAMANI<sup>3</sup>, Greg M. Peters<sup>3</sup>, Magdalena Svanström<sup>3</sup>  
*<sup>1</sup>SP Technical Research Institute of Sweden, Sweden; <sup>2</sup>Swerea IVF, Sweden; <sup>3</sup>Chalmers University of Technology, Sweden*
- 02.45 pm **Danish apparel sector natural capital account**  
MARIE DE SAXCÉ<sup>1</sup>, Jannick Schmidt<sup>1</sup>, Caroline Bartlett<sup>2</sup>, Steven Bullock<sup>2</sup>, Rune Jørgensen<sup>3</sup>, Niels Karim Høst-Madsen<sup>3</sup>  
*<sup>1</sup>LCA Consultants, Denmark; <sup>2</sup>Trucost, England; <sup>3</sup>NIRAS, Denmark*



# Schedule

WEDNESDAY, SEPTEMBER 2

03.00 pm – 04.30 pm

WEDNESDAY  
03.00 pm – 04.30 pm

**TALK SHOW: STRENGTHENING THE TRANSITION TO CIRCULAR ECONOMY BY LCM**

**LOCATION:** AMPHI A

**MODERATOR:** JODIE BRICOUT, CD2E, FRANCE

**03.00 pm Sangwon Suh, International Resource Panel**

**Ludovic Dariol, Airbus DS**

**Siebe Trompert, Philips**

**04.00 pm Awards for best posters and best platform presentations**

Guido Sonnemann, ISM-CyVi – University of Bordeaux (Chair, LCM2015)

**04.15 pm Presentation of LCM2017**

Enrico Benetto, Head of RDI unit at Luxembourg Institute of Science and Technology (Chair, LCM2017)

**04.20 pm Concluding remarks and summary of LCM2015**

Guido Sonnemann, ISM-CyVi – University of Bordeaux

Manuele Margni, CIRAI – Polytechnique Montréal

Naeem Adibi, [avniR] by cd2e

