HBC Hydrogen, Sustainability and Finance Conference 2020

Thursday, Nov 19

08:30 AM - 09:00 AM

Welcome Session

Lester Anoquot

Chief, Saugeen Nation

Brad Chittick

President & CEO, Hydrogen Business Council

Robyn Collver

Senior VP, Canadian Tire Corp

Welcome to the 2020 HBC Hydrogen and Sustainability Conference!In this session: Welcome Talk - Brad Chittick, HBC CEO Gradtitude and Responsibility by Chief of Saugeen First Nations - Lester Anoquot Keynote address, Hydrogen and Sustainability - Robyn Collver, Canadian Tire Corporation

Thursday, Nov 19

09:00 AM - 09:45 AM

Keynotes: Hydrogen Energy Development NOW

Session A, Keynotes

Aaron Hoskin

NRCAN

David Furman

President, Marketing, Hyster-Yale Group

Moataz Eldib

Product Manager, Nuvera Fuel Cells

Matthew Fairlie

Vice Chair, Next Hydrogen

Welcome to Keynote Session A! This session will be hosted by David Furman, President of Hyster and will contain the following talks. Aaron Hoskins, NRCAN - Hydrogen Road-Map Moataz Eldib, Nuvera/Hyster-Yale Mathew Fairlie, Next Hydrogen

Thursday, Nov 19

09:45 AM - 10:15 AM

Jeff Yurek, Minister of the Environment of Ontario

Jeff Yurek

Minister of Environment, Conservation and Parks, MPP, Legislative Assembly of Ontario

Thursday, Nov 19

10:15 AM - 10:30 AM

Break Session

Take some time to go visit the Virtual Exhibitor Booths and connect with peers!

Thursday, Nov 19 10:30 AM - 11:30 AM

Keynote: Connecting Climate Change, Environment and Carbon Avoidance

Session B, Keynote

David Arkell

President and CEO, 360 Energy

David Haberman

H₂

Dr. Shashi Kant

Professor, Institute for Management & Innovation, UTM

Richard Carlson

Director, Energy Policy and Energy Exchange, Pollution Probe

Welome to Keynote Session B Keynote: Connecting Climate Change, Environment and Carbon AvoidanceSession Chair: David Haberman of Game Change EnergyThis session will include Keynote presentations from: Dr. Sashi Kant, U of T Richard Carlson, Pollution Probe David Arkell, 360 Energy

Thursday, Nov 19 11:30 AM - 12:30 PM

Keynote: How does Hydrogen fit SDG globally?

Session C, Keynotes

Daryl Wilson

Executive Director, Hydrogen Council

Joanne McMillin

Associate Vice President Business Sustainability, Canadian Tire

Chris Norris

Director, Business Development, New Energy Business, Siemens Energy

Glen Martin

Co-Founder and CEO, Maker Hydrogen

Matthew Blieske

Global head of Product development and engineering, Shell Hydrogen

Welcome to keynote Session C:How does Hydrogen fit SDG GloballySession Chair: Joanne McMillin from Canadian Tire Corperation. This session will include presentations from: Daryl Wilson, Ceo of Hydrogen Council: "The Case for Global Transformational Change" Chris Norris, Siemens Canada: "Global Initiative in Hydrogen" Mathew Blieske, Shell Hydrogen: Decarbonizing With Hydrogen Glen Martin, Ceo of Infrastructure Energy: "The Hydrogen Wave in California" TBD: "Closing the Circle – making technology choices in an SDG framework, technology advocacy in sustainability"

Thursday, Nov 19 12:30 PM - 01:00 PM

Lunch Break

Thursday, Nov 19 01:00 PM - 01:15 PM

The National View on Hydrogen and Fuel Cell Deployment

Address from Mark Kirby, Canadian Hydrogen and Fuel Cell Association:

Mark Kirby

President and CEO, Canadian Hydrogen and Fuel Cell Association CHFCA

Address from Mark Kirby, Canadian Hydrogen and Fuel Cell Association: The National View on Hydrogen and Fuel Cell Deployment

Thursday, Nov 19

01:15 PM - 02:15 PM

Goods Movement

Session A - Track 1



Craig Knight

CEO, Hyzon Motors

Rob Campbell

Chief Commercial Officer, Ballard Power Systems

Dave Schaller

Industry Engagement Director, NACFE

Brad Chittick

President & CEO, Hydrogen Business Council

Rob Harvey

Director, Energy Infrastructure, Hydrogenics/Cummins Inc

This session is moderated by Brad Chittick, President and Acting Chair, Hydrogen Business Council "The Push for Hydrogen Fueled Truck Engines"- Rob Harvey, Cummins/Hydrogenics "Developing Hydrogen Systems to replace Diesel" - Rob Campbell, Ballard "Putting Hydrogen Trucks on the Road" - Craig Knight, Hyzon Motors "Status of H2 as a fuel for trucks" - David Schaller, NADFE

Thursday, Nov 19 01:15 PM - 02:15 PM

The Promise of Bulk Production, Supply and Uptake in Ontario

Track 2, Session A



Heather Kleb

Director, Next Generation Nuclear Technology, Bruce Power

Alex Simakov

Associate, Sussex Strategy Group

Edward Arlitt

Supervisor, Advanced Technology Research, IESO

Robert Stasko

CEO and Principal, Science Concepts Inc.

Jack Simpson

Director Business Development, Electrification, Ontario Power Generation

Track 2, Session A - The Promise of Bulk Production, Supply and Uptake in OntarioSession Chairman - Robert Stasko, Hydrogen Business Council "The OPG Vision on Bulk Hydrogen Supply in Ontario" - Jack Simpson, Director at OPG The Case for Green Hydrogen from Nuclear"- Heather Kleb, Bruce Power "Ontario's Evolving wholeale electricity market: Opportunities for flexible loads, including hydrogen"- Edward Arlitt, Independant Electricity System Operator (IESO) "Addressing Regulatory & Sussex Strategy Group Group" - Alex Simakov, Sussex Strategy Group

Thursday, Nov 19 01:15 PM - 02:15 PM

Green Financing and the Role for Private Sector Investments

Track 3, Session A



Paul Stevers

President, Think Renewables Group

Brian Petersen

Managing Partner, Fort Capital Partners

Rupert Merei

Managing Director, Equity Research, National Bank

Peter McArthur

VP Tech & Innovation Banking- Cleantech Lead, RBC

Track 3, Session A: Green Financing and the Role for Private Sector InvestmentsSession Chairman: Paul Stevers,President & Stev

Thursday, Nov 19 02:15 PM - 03:15 PM

People Movement

Session B - Track 1



Sujin Wren

Hydrogen Technologies Lead, Hatch

Mitchell Foreman

Director, Advanced Technology Business Development, Toyota

Rymal Smith

President, Change Energy

Bob Oliver

CEO, Tech-K.O., Inc.

Dr. Josipa Petrunic

President and CEO, Canadian Urban Transit Research & Innovation Consortium (CUTRIC)

Session B, Track 1: People MovementSession Chairman: Ry Smith, Change Energy "Bus Demonstration Projects Across North America" -Josipa Petrunic, CUTRIC "Hydrogen and Rail" -Bob Oliver, Tech-KO "Toyota and Hydrogen" - Mitchell Foreman, Toyota "Enabling Clean Transport with Clean Hydrogen" - Sujin Wren, Hatch

Thursday, Nov 19 02:15 PM - 03:15 PM

Industrial Uses for Electrolytic Hydrogen and Oxygen

Track 2, Session B



Tariq Qurash

Enbridge

Vinod Embrandri

Product Application Specialist, WAJAX

Greg Vezina

Chairman and CEO, Hydrofuel Inc.

David Bangma

Senior Manager, Technical Services & SD, Ash Grove (CRH)

Sam McDermott

Enbridge

Track 2, Session B: Industrial Uses for Electrolytic Hydrogen and OxygenSession Chair: Sam McDermott, Enbridge "Compelling Case for Hydrogen Forklifts" - Vinod Embrandri, Wajax Corp "Alternative uses for hydrogen and oxygen as valuable co-products, Tariq Qurashi, Enbridge "Green ammonia from Green Hydrogen"- Greg Vezina, HydroFuel Inc. "Electrolytic Oxygen in Cement Production" - David Bangma, CRH

Thursday, Nov 19 02:15 PM - 04:30 PM

New Business Opportunities in Hydrogen

Track 3 Session B and C



Paul Stevers

President, Think Renewables Group

Calvin Johnson

Head of Commerical, Proton Energy

Chris Reid

EkonaPower

Brian Petersen

Managing Partner, Fort Capital Partners

Tyler Hamilton

Director, Ecosystem Development, Cleantech, MaRS DD

Mark Kirby

President and CEO, Canadian Hydrogen and Fuel Cell Association CHFCA

Canon Bryan

CFO, Terrestrial Energy

Juergen Puetter

renewableh2canada

Arthur Potts

True Energy

Raveel Afzaal

President, Next Hydrogen

Alexandra Tavasoli

CEO & CTO, Solistra Corporation

Edward Stuart

Manager of Technology and Business Development, Co-Founder, Hydrogen Optimized

Colin Armstrong

HTEC

Joe Williams

President, Innovative Hydrogen Solutions Inc.

Moderator: Paul Stevers, Think RenewablesPanelists: Brian Petersen, Fort Capital Tyler Hamilton-Director, Cleantech, MaRS DD Mark Kirby - President of CHFCA This "New Business Opportunities in Hydrogen" session is designed to help companies introduce their respective business opportunity or opportunities to conference attendees. We will highlight the rapidly growing business opportunities in hydrogen and then we would focus each opportunity with the company's representative and followed by Q&A with the online audience. Presenters: Raveel Afzaal, President, NextHydrogen Colin Armstrong, President and CEO of HTEC Alexandra Travasoli, CEO, Solistra Corperation Canon Bryan, CFO, Terrestrial Energy Edward Stuart, Manager of Technology, Co-Founder Hydrogen Opimized Juergen ...

Thursday, Nov 19 03:15 PM - 03:30 PM

Networking Break

Thursday, Nov 19 03:30 PM - 04:30 PM

Community Led Projects in Hydrogen

Track 1, Session C



Jonathan Bayne

KulGroup

Jill Roote

Economic Development, Bruce County

Ana Maria Suknovic

Senior Account Executive, Industry and Sector Strategy – Advanced Manufacturing Industries, Ministry of Economic Development, Job Creation and Trade, Government of Ontario

Shane Day

President and COO, CleanFuel Systems Inc.

Rupp Carriveau

Director, Environmental Energy Institute

Track 1, Session C: Community Led Projects in HydrogenSession Chairman: Ana Maria Suknovic "Bruce County Development of Bulk Hydrogen Storage" -Jill Roote, Bruce County "Zero Carbon Corridor In Ontario" - Rupp Carriveau, U of Windsor Clean Fuel Systems - Shane Day KulGroup, Jonathan Bayne

Thursday, Nov 19 03:30 PM - 04:30 PM

Future Sources of Bulk Renewable Hydrogen

Track 2, Session C



Steve Kay

Enbridge

Canon Bryan

CFO, Terrestrial Energy

Patrick Carr

Bus. Development Manager - Canada, 2G Energy

Richard Bower

Managing Director, ReCarbon

Ron Oberth

President & CEO, Organization of Canadian Nuclear Industries

Track 2, Session C: Future Sources of Bulk Renewable HydrogenSession Chair: Steve Kay, Manager CNG, LNG and Renewable Hydrogen, EnbridgeSpeakers: "Hydrogen from Municipal Waste Streams " - Richard Bower, ReCarbob Inc "The Nexus of Hydrogen and New Nuclear" - Ron Oberth, OCNI "CHP with H2 - Scalable Steps to NetZero" Patrick Carr - 2-G energy "The role for "New Nuclear" in future hydrogen production" -Canon Bryan, Terrestrial Energy

Thursday, Nov 19 04:30 PM - 05:00 PM

Day One Wrap up / Going Forward

Closing Remarks

Robert Stasko

CEO and Principal, Science Concepts Inc.

Closing remarks by Bob Stasko, HBC

Friday, Nov 20 09:00 AM - 09:15 AM

Day 2 Opening Remarks

Overview of the Previous Day

Robert Stasko

CEO and Principal, Science Concepts Inc.

Opening Remarks and Overview of the Previous Day, Presented by Robert Stasko, HBC

Friday, Nov 20 09:15 AM - 10:30 AM

University R&D - Support of Hydrogen Deployment

Session 5A



Roydon Fraser

UWaterloo

XiaoYu Wu

Assistant Professor, University of Waterloo

Ivette Vera-Perez

National Team Lead, Account Management, Mitacs

Micheal Fowler

Professor, U of Waterloo

Paul O'Brien

Professor, York University

Day Two, Track 1 Session A: University R&D - Support of Hydrogen DeploymentSession Chair: Ivette Vera-Perez, MITACS "Outlining 9 recommended priority areas for utilization of hydrogen produced from renewable or nuclear energy sources in Ontario" - Prof. Michael Fowler, University of Waterloo "Research & Development Opportunities for Long Term (e.g., H2/CO2 to valued products)" - Prof. XiaoYu Wu, - U of Waterloo "Upstream health impacts of hydrogen powered goods movement" Prof. Roydan Frazer – U of Waterloo "LCA impact of implementation of some of the 9 hydrogen-related priority areas in Ontario that were recommended by Prof. Michael Fowler. In addition, ...

Friday, Nov 20 09:15 AM - 10:30 AM

Emergent Transportation Modes that can benefit from Hydrogen Fuel

Session 6B



Ryan Sookhoo

Cummins

Barry Prentice

President, Bouyant Aircraft Systems Int.

Robert Stasko

CEO and Principal, Science Concepts Inc.

Nirmal Gnanapragasam

Senior Process and Modeling Scientist, Canadian Nuclear Laboratories

Day Two, Track 2, Session A: Emergent Transportation Modes for Hydrogen FuelSession Chair: Robert Stasko, CEO, Science Concepts International "Marine Applications using Hydrogen or Green Ammonia" Nirmal Gnanapragasam, CNL *hbsp; *hbsp

Friday, Nov 20 11:00 AM - 12:00 PM

Talent Development and Career Opportunities in Hydrogen

Session 6A



Brittany Berry

Communications Strategist & Advisor, SCI / WiRE

Joanna Osawe

WiRE

Mark Chapaskie

Director, EHRC

Sarah Fairlie

Business Development Director - Social Innovation, Mitacs

Day two, Track 2, Session A: Talent Development and Career Opportunities in HydrogenSession Chair: Joanna, President of Women in Renewable Energy, (WiRE) "Developing Needed Talent in Green Industries" -Sarah Fairlie, MITACS "Programs for New Grads in Green Energy Jobs"- Mark Chapeskie, ESHR "Bringing More Women into Clean Energy Careers" - Brittany Berry, WiRE/SCI

Friday, Nov 20 11:00 AM - 12:00 PM

New Hydrogen Generation & Commercialization Technologies

Session 5B



margaret mcbeath

Director, Company Strategy, NPX

Padraic Foley

Ontario Centres of Excellence

Bharath Nangia

Chief Innovation Catalyst, Nuclear Promise X (NPX)

Kamiel Gabriel

Professor and Founding AP Research & Graduate Programs, Ontario Tech University

Micheal Fowler

Professor, U of Waterloo

Session Chair: Padraic Foley, Ontario Centres Of Excellence (invited) "Developing Needed Talent via Recommended Research Projects" Michael Fowler, U of Waterloo. "Next Generation Hydrogen Production" Kamiel Gabriel, Ontario Tech University "From Innovation to Implementation: Making Change and Disruption a Reality in the Energy Sector" -Margaret McBeath, NPX

Friday, Nov 20 12:00 PM - 12:14 PM

Day two Wrap up and closing

Robert Stasko

CEO and Principal, Science Concepts Inc.

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