



April Meeting

# Agenda

- Organization and Website
  - Announcing new CHN Communications Director
- Outreach/networking
  - CCIA members - pledge letters
  - New CHN members
  - Other Hydrogen organizations
  - Colorado early adopters
  - Industrial players
- Projects and Initiatives
- Education, Advocacy
- Discussion / Q&A

# Announcing the New CHN Communications Director

## Charlotte Hamilton

- Charlotte received her undergraduate degree in English from Wellesley College
- She earned her Masters of Social Service Administration from the University of Chicago
- She is a Licensed Clinical Social Worker and works full time as the supervisor of an outpatient mental health program
- Charlotte is a member of Al Gore's *Climate Reality Project*



# Update (official) CHN Members



# Update (potential) CHN Members



TOYOTA



innosphere

VAIREX



HyET Hydrogen



# Membership activities (action tracker)

- CClA members - pledge letters
  - Making progress, need letters signed to be included as official members
- New CHN members
  - Letters send out, follow up calls
- Other Hydrogen organizations
  - Strong activity, met with US and International partners
- Colorado early adopters
  - Preparing the list
- Industrial players
  - Tracking contacts, ongoing process, like more member involvement

# Networking Report - Outreach

- Asia-Pacific Hydrogen Association (APAC)
  - Telecon held with APAC in Singapore
  - Our websites are now linked [www.apac-hydrogen.org](http://www.apac-hydrogen.org)
  - APAC is planning an industry directory, no charge to companies to be listed
- Renewable Hydrogen Fuel Cell Collaborative (Ohio)
  - Telecon with 2 representatives
  - Associated with Cleveland State University and Midwest Hydrogen Center of Excellence
  - A good example of a roadmap – [Energy Storage Roadmap for Northeast Ohio](#)
- Bonneville Environmental Fund
  - Telecon
  - Independent organization originated and funded by BPA , a Federal organization that operated hydro-dams and distributes hydro power in western US
  - Focused on renewable and non-carbon energy solution [Bonneville Environmental Fund](#)

# Networking Report -Outreach

- Denver Metro Clean Cities (DMCC)
  - Telecon with DMCC to acquaint each other with our organizations.
  - Clean Cities is part of the Technology Integration program in the DoE Vehicle Technologies Office (VTO). There are three Clean City Organizations in Colorado.
  - Strongly involved in BEV, NG and RNG and in the future FCEV vehicles
  - [Denver Metro Clean Cities Coalition](#)
- Center for Transportation and the Environment (CTE)
  - Telecon
  - CTE is a consultant group that helps with funding and execution of US transit organizations for ZEV
  - Involved in most Hydrogen Transit projects [CTE](#)
- WSP
  - [WSP](#) is a large Canadian based Consultancy firm focused on Environmental projects
  - WSP has a wealth of information regarding Transit Public organizations
  - Has introduced us to a Transit Consulting company KTC



# Networking Report - Outreach

- Krueger Transit Consultancy (KTC)
  - KTC is an OEM rep company for components in Transit Buses. Their portfolio includes Ballard Fuel cells
  - KTC has wealth of knowledge on all US Public Transit projects and specifically focuses on the FCEV's. They have been involved with many Federal and State grant proposals and helping with the Fort Collins and Boulder opportunities.
- DOE Vehicle Technology Office
  - Brian has connected with a Program Manager at the [DoE Vehicle Technology Office](#) in Washington DC.
  - Contact is keen to support CHN as he can to promote hydrogen in Colorado.
- John Cockerill
  - We met with representative from John Cockerill (former CMI), John Cockerill is an old Belgian company that is providing large equipment for the power, steel and cement industry and provides e.g. large boilers, heaters and heat exchangers. [johncockerill.com](http://johncockerill.com)
  - They are investing in hydrogen solutions and acquired a major Chinese Alkaline electrolyzer company with capacity of up to 350 MW systems. Largest unit is now 75 MW with a plan to go up to 200 MW
  - Contact located in Colorado Springs sees many areas of collaboration with CHN

# Network report - outreach

- HydroCosm
  - We met with HydroCosm
  - Newly formed company HydroCosm combines Rentricity solutions with small scale electrolyzer systems. [Rentricity.com](https://www.rentricity.com)
  - Rentricity replaces large throttle valves in water systems with turbine/generator solutions to capture wasted energy

# Projects and Initiatives

- City of Boulder Fuel Cell Bus initiative
  - Planning to apply for Federal Transit Administration “Infrastructure ” Grant (due date April 30)
  - Receiving significant help from Kruger Transit Consultants (KTC)to prepare the Grant.
- City of Fort Collins – Transfort Fuel Cell Bus initiative
  - We have tried to partner with the City of Fort Collins and Transfort to apply for the FTA "Infrastructure" Grant. Although there is interest, the COVID 19 issues are standing in the way to bring this initiative to the City Manager and Town council before the April 30 deadline.
- Webinar series planned
  - Three webinars
    - May 21, 10 AM – Introduction to Hydrogen and Fuel Cells
    - July 23, 10 AM – Title TBD
    - August 20, 10 AM – Title TBD
  - Presented by CHN and jointly sponsored by CCIA, Denver Metro Clean Cities, Colorado Energy Research Collaboratory and CHN
- Podcast progress
  - Script for first episode written
  - Original music written and recorded for intro and outro

# Education, advocacy, roadmaps

- Update on Colorado Energy Office
  - CHN provided presentations with rough ideas for roadmap and budget proposal
  - Budget for roadmap generation in principle approved (\$150k)
  - Decision date moved and COVID 19 could impact funding
- Continue to work on standard presentation material
  - Fundamentals of Hydrogen and Fuel Cells – Draft on Website
  - Standard introduction to Hydrogen and CHN – Draft created, webinar May 21
  - Overview CHN activities and Roadmap – Draft created – used for CEO input
  - CHN Transportation plan – Draft created, webinar July
  - CHN Utilities plan- TBD
  - CHN Large end user plan - TBD