

Wayne Roth

Do you have any familiarity with Global Thermostats adsorption direct carbon capture technology? The company purports to be able to capture CO₂ from the atmosphere with a 70% efficiency. Is this doable?

Thomas Meyer

What is the temperature of cooling for the system with 52°C ambient temperature? The driving temperature is 90°C, right? And what is its COP? What kind of Image analysis software is used?

Bhargav Pandya

As far as transportation application is concerned, how can the acceleration and vibration of the vehicle affect the overall performance of the system?

Ajeaya Karajikar

For the CO₂ capture system, does it matter if the flue gas is "wet", i.e. contains water content?

Thomas Meyer

What working fluid is used for the open absorption cycle for water production?

Gerrit Földner, Fraunhofer ISE, Germany

Which adsorbent-refrigerant pair has been used for the biomass-driven adsorption chiller?

Thomas Meyer

What is the major Barrier for market entry of sorption systems in your opinion?

Wale Odukumaiya

With solar PV becoming very cheap now, what is the advantage of the adsorption chiller to prevent food spoilage over just using solar PV to provide refrigeration?

sunku prasad

In water purification system, will the dirty water affect the adsorbent material?

Subodh Badgujar

As we are trying to use waste heat here for refrigeration, can we use this/similar approach "using solar energy" (as in Solar AC)?

Anonymous Attendee

I am curious about if HCOOK solution is compatible with this sorption technology and what factors are considered while selecting the working fluid.

Xiaobing Liu

Salt crystallization is an issue for reliable operation of absorption system. Is there any process to overcome this problem?

Knarwal

How effective is the usage of Adsorption technologies in space heating and cooling?

Jacob Cheriyan

Great work at Georgia Tech! Thanks for sharing excellent research! Small question - what is means to reduce air pollution (last slide - social impact)?

Gerrit Földner, Fraunhofer ISE, Germany

Solar Air-conditioning: Direct competition is a PV-driven compression system, which might be less cost-intensive.

Anonymous Attendee

What is the heat source temperature for the bubble pump?

Xiaobing Liu

To compare solar PV and thermal absorption, the embodied energy for producing the PV shall be accounted for.

Bhargav Pandya

Compact VARS can be easily integrated with high temperature fuel cell such as solid oxide fuel cell for automobile application. SOFC provides electricity to accommodate hotel loads of the trucks and exhaust from SOFC being used for refrigeration on-board, which eliminates the requirement of the auxiliary diesel engine.