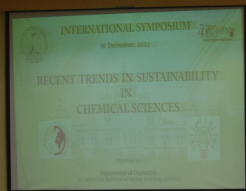




SAINABILITY

Respect to nature and environment

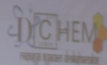






INTERNATIONAL SYMPOSIUM

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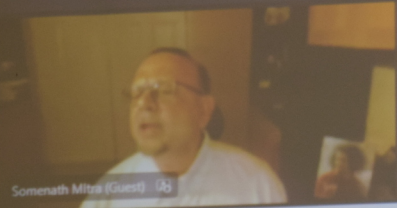
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Biofuels and Bioderived Products

- Fossil Fuels Still Supply 84 Percent Of World Energy - U.S. petroleum consumption 20.5 million barrels/day 2019
- According to US EPA Biofuels can reduce greenhouse gas emissions by 57 – 86%
- Global biofuel production is equivalent to 1.5 billion barrels of oil per day. U.S. and Brazil produced 1.1 billion barrels of oil per day
- Biodiesel, bioethanol, and light hydrocarbons from vegetable oils and fats, and lignin
- Important bio-derived products include ethanol, butane, diol, triols, furfural, and other platform molecules

<https://www.statista.com/chart/1000000/biofuel-production-in-oil-equivalent>

CO₂ Biofuel

POWERED BY COOKING OIL

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Virgin Atlantic won a competition to receive government funding for the first net zero transatlantic flight



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A case approach

	Knowledge	Attitude	Skills	Habits
Challenge	<ul style="list-style-type: none">Distributional effects http://www.economics-journal.org/economics/journalarticles/2017-31/Membrane systems<ul style="list-style-type: none">Lower energy / temperature dynamicsquantum of solvents vis-à-vis membraneseparation factorsselectivity / CAPEX Opex/ less than 0.5% waste at risk used			
Solutions	<ul style="list-style-type: none">flexible package<ul style="list-style-type: none">Get away from fluoropolymersEnvironmental life time of plasticsRegulations & people movement			
Results	<ul style="list-style-type: none">V/ Health sector issues<ul style="list-style-type: none">USD 12 billion profits by becomingGeographies / Energy, SPC, HealthESG / Reputational risk / REACHTunnels / Industry = grab			
Impacts	<ul style="list-style-type: none">The Silent SpringClimate Change NexusIndustry flight / CBAMESG employs + 200 scenarios for 1.5°CIntegrating 1. Budget 450-800 GtCO2ehttps://www.nature.com/articles/435025ahttps://unstats.un.org/unsd/environ/https://unstats.un.org/unsd/environ/			



U.N. SUSTAINABLE DEVELOPMENT GOALS (SDGS) & CHEMISTRY

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A Gateway to Sustainable Solutions through Green Hydrogen





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**INTERNATIONAL SYMPOSIUM ON
"RECENT TRENDS IN SUSTAINABILITY IN
CHEMICAL SCIENCES"**

16th December, 2023



सुखमति

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