



Shell
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SCIENTIFIC CONFERENCE '23

Design of Next-gen Materials, Molecules, Bio & Energy Systems

October 4-5, 2023 | Bengaluru, India



A Shell.ai Sciences Initiative in association with





SCIENTIFIC CONFERENCE '23

Meeting the ambitious target of net-zero emissions by 2050 while catering to increasing energy demand calls for a need to accelerate design of future energy systems, in alignment with accelerated development of materials/molecules and integration with biosciences. Focused experimentation, complemented by insights generated from computational sciences, recent progress on machine learning as well as artificial intelligence-based techniques and high-performance computing will fast-track the design of next-gen materials, molecules, bio and energy systems.

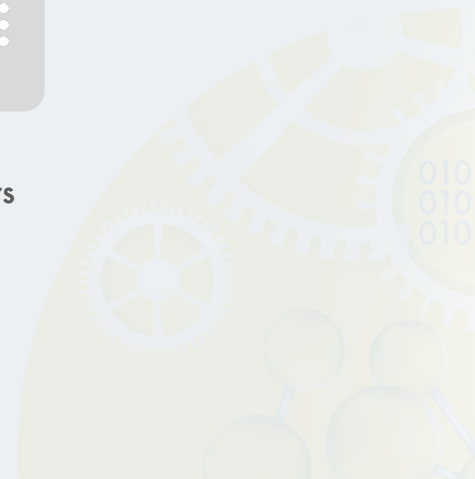
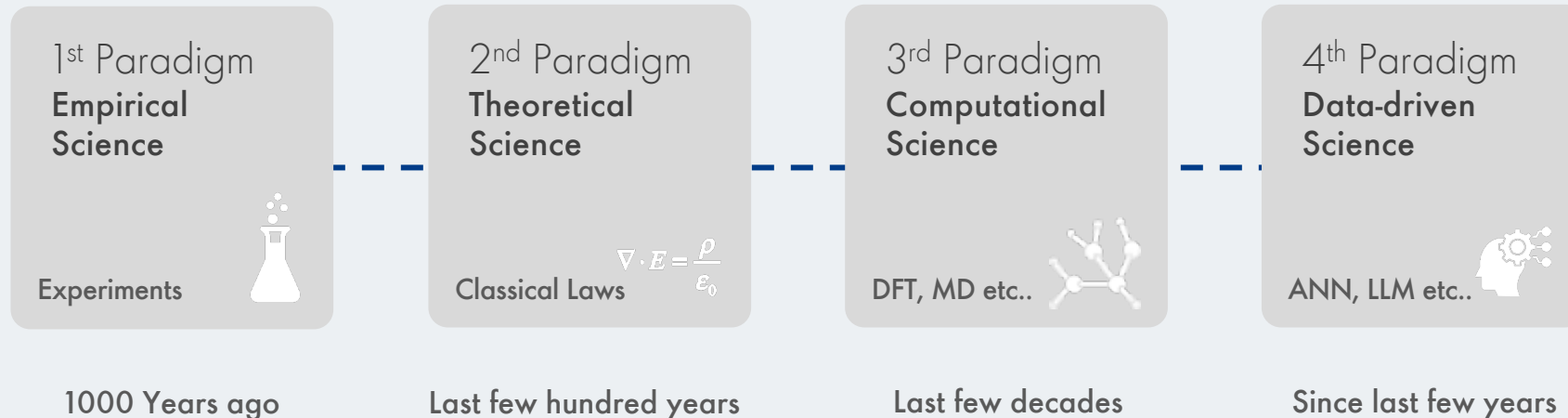
This conference aims to bring leading experts from domain sciences, experimentation, computations, and AI together to discuss and debate about the confluence of these emerging fields for accelerated energy transition.

Join us to be a part of this trailblazing collaboration!

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Shell.ai Scientific Conference aims to usher in on the future of natural sciences



Agenda Day 01

4 Oct



Session 01 Materials & Molecular Design



Suchismita Sanyal
General Manager,
Computational Science, Shell

Curtain Raiser

8:45 AM



Daniel Jeavons
VP, Computational
Science & Digital
Innovation, Shell

Opening remarks

9:00 AM



Dirk Smit
Corporate Chief
Scientist, Shell

9:15 AM



Mathias B Steiner
Manager & Senior Technical
Staff Member, Sustainable
Materials, IBM Brazil

9:30 AM



Ananth Govind Rajan
Assistant Professor
Indian Institute of Science

10:30 AM



Umesh V Waghmare
Dean, Faculty Affairs
Jawaharlal Nehru Centre
for Advanced Scientific
Research

11:00 AM



Ana Flávia Nogueira
Professor, State University
of Campinas & Director,
Center for Innovation of
New Energies, Brazil

11:30 AM



John Lockemeyer
Chief Scientist,
Catalysis, Shell

12:00 PM

Showcase Powering lives through Science



Lunch Break

12:30 PM



Siddharth Hande
Founder/CEO,
Kabadiwalla Connect

Special Session

1:30 PM

Session 02 Materials and Molecular design



Rolf van Benthem
Chief Scientist,
Polymer Science, Shell

2:00 PM



Berend Smit
Professor, École
polytechnique fédérale
de Lausanne

2:30 PM



**Alexander van der
Made**
Chief Scientist,
Chemistry, Shell

3:00 pm



Lalitha Subramanian
Global Head,
Outcome Based Research,
BIOVIA, Dassault Systèmes

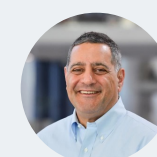
4:00 PM



Panel Discussion
Future of Experimentation
Moderator:

Marwa Al-Ansary
General Manager, Next-gen
Breakthrough Research, Shell

4:30 PM



Ed Ganja
VP, Catalyst & Analytical
Technology, Shell

Closing remarks

5:30 PM

Agenda Day 02

5 Oct



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Session 03 Systems Design



Ajay Mehta
Vice President, Engineering
Technology, Shell

Opening remarks

9:00 AM



Detlef Hohl
Chief Scientist,
Computational & Data
Science, Shell

Session

9:15 AM



Prith Banerjee
Chief Technology
Officer, ANSYS

9:30 AM



Elizabeth Endler
Chief Scientist, Energy Storage
& Integration, Shell

10:30 AM



Joe Powell
Founding Director,
UH Energy Transition
Institute

11:00 AM



Deepak Subramani
Assistant Professor,
Indian Institute of Science

11:30 AM



Shivkumar Kalyanraman
CTO, Energy Industry, Asia
Microsoft

12:00 PM



Lunch Break

12:30 PM

Showcase Powering lives through Science

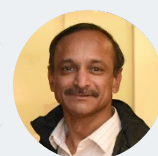
Session 04 Biosciences



Nitin Akhade
Project Lead –
Rural Electrification
and Livelihoods,
Customized Energy
Solutions

1:30 PM

Special Session



Chandrasekaran Jayaraman
Founder
Director,
Watsan
Envirotech



Jeremy Shears
Chief Scientist,
Biosciences, Shell

Session

2:00 PM



K. VijayRaghavan
Emeritus Professor and
Former Director,
National Centre for
Biological Sciences

2:15 PM



Paulo Artaxo
Professor, University of
Sao Paolo

2:45 pm



Beena Rai
Chief Scientist,
Tata Consultancy Services

3:45 PM



Raghunathan Rengaswamy
Professor,
IIT-Madras

4:15 PM



Panel discussion
High Performance Computing
Moderator:
Subhasis Banerjee
Principal Scientist, Shell

4:45 PM



Suchismita Sanyal
General Manager,
Computational Science,
Shell

Closing remarks

5:45 PM

Core Team

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Suchismita Sanyal
General Manager,
Computational Science



Detlef Hohl
Chief Scientist Computational
& Data Science



Sharan Shetty
Principal Scientist
Computational Science



Indranil Rudra
Manager,
Computational Chemistry
& Material Science



Nikhil Davies
Shell.ai
Manager



Amit Walia
Academic Partnerships
Manager, India



Sharanya Gopinath
Engagement
Lead



Ajith M S
Engagement
Analyst



S Sangeetha
Associate Admin
Support



**Anand Narayanan
Krishnamoorthy**
Researcher, Computational
Chemistry & Material
Science

