Welcome to IBM Research

Presentations and Photos
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#ibmresearch
09:00 - 9:15  A New Era of Computing: Cognitive Systems, Dr. Matthias Kaiserswerth

09:15 - 10:00  “Electronic Blood”, Radically Rethinking Computing, Dr. Bruno Michel and Dr. Patrick Ruch

10:00 - 12:00  Human Brain Project and Future Supercomputing, (:60 minutes for Q&A)
   Prof. Henry Markram, EPFL and Dr. Alessandro Curioni

12:00 - 13:15  Lunch with IBM Fellows and Scientists from Your Home Countries

13:15 - 13:45  Two Factor Security with Near Field Communications for Mobile Transactions, Diego Ortiz

13:45 - 14:20  Shaping Liquids to Find Tumors in Human Tissues, (split into two groups)
   Coffee Break

14:20 - 15:00  Dr. Emmannuel Delamarche and Dr. Govind Kaigala
   Dr. Alex Soltermann, University Hospital Zurich (recorded video)

15:00 - 15:45  The World’s Most Noise Free Room (split into two groups)
   Dr. Marilyne Sousa and Philipp Eib
   Dr. Rolf Erni, Swiss Federal Lab of Material Science & Technology (EMPA)

15:45 - 16:30  Visualizing Social Sentiment in Real Time, Dr. Danny Soroker (Watson, New York)

16:30 - 17:15  Update from IBM’s Newest Lab in Kenya, Dr. Osamuyimen Stewart (Kenya)

Also in the press kit  Internet of Things Starter Kit from IBM and Libelium (Spanish start-up)
The New Era of
Cognitive Computing

Dr. Matthias Kaiserswerth
Vice President and Director, IBM Research - Zurich

#ibmresearch
Big Data

Mobile

Cloud

Social

Internet of Things
Eras of computing

Tabulating Systems Era

Automation of tasks

Productivity and shift from menial work
Eras of computing

Programmable Systems Era

Automation of processes and transactions

Enable global enterprise and empower individual
Eras of computing

Cognitive Systems Era

Scaling and magnifying human capability

Unlock time value of insight

cognitive: of or pertaining to the mental processes of perception, memory, judgment, learning, and reasoning.
From Trivia to ...

Finance
Healthcare
Legal
Call Centers
We Are Entering a New Era

Tabulating Systems Era

Programmable Systems Era

Cognitive Systems Era

1900 1950 2011
Many Advancements are Needed to Usher in this New Era

Advancements in how computers are packaged, powered and cooled inspired by biology

Rethink how computers process volumes of raw data, neuromorphic computing, new programming for advanced simulation

Human Brain Project