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MAY 2010 VOLUME 58 NUMBER 5 IECMBT (ISSN 0098-5775)

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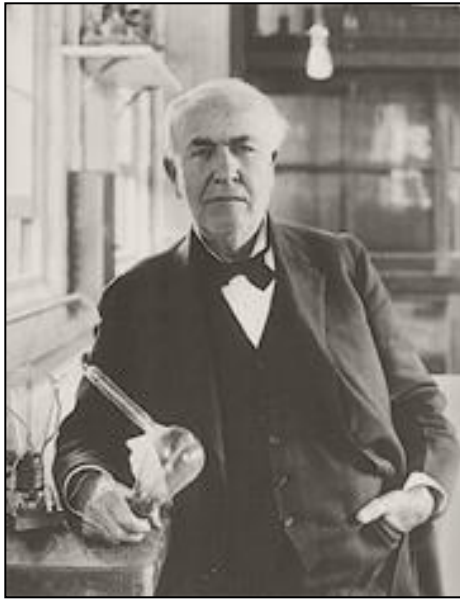


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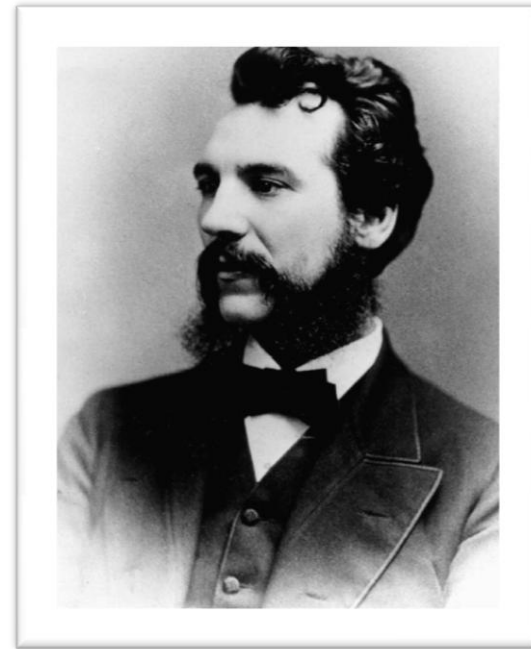


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Thomas A. Edison



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1912

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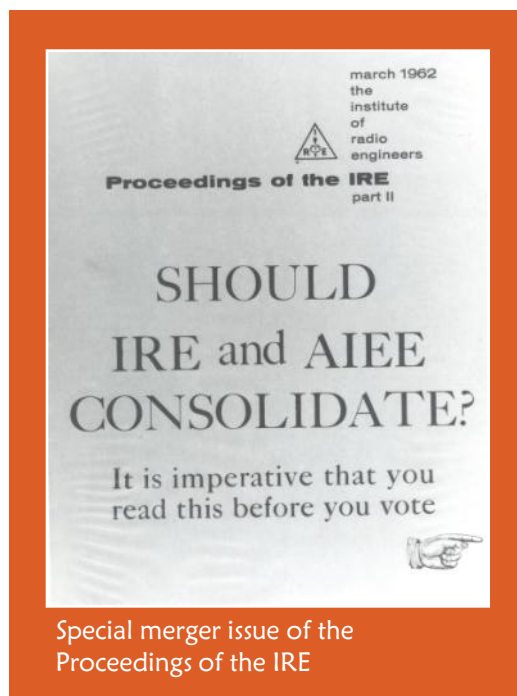
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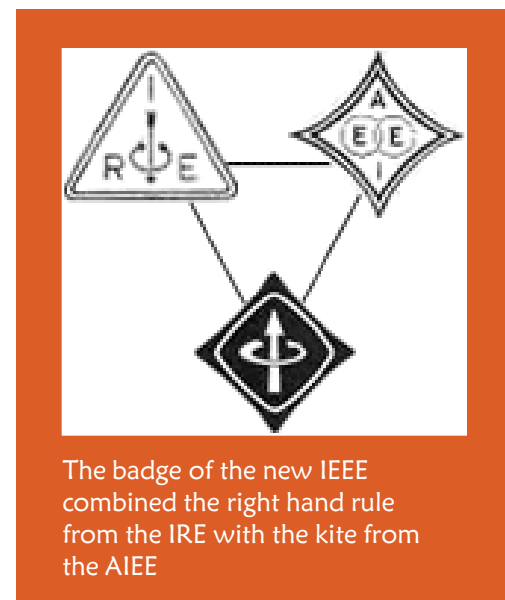


1962

Symposium on the proposed merger, IRE National Convention



Special merger issue of the Proceedings of the IRE



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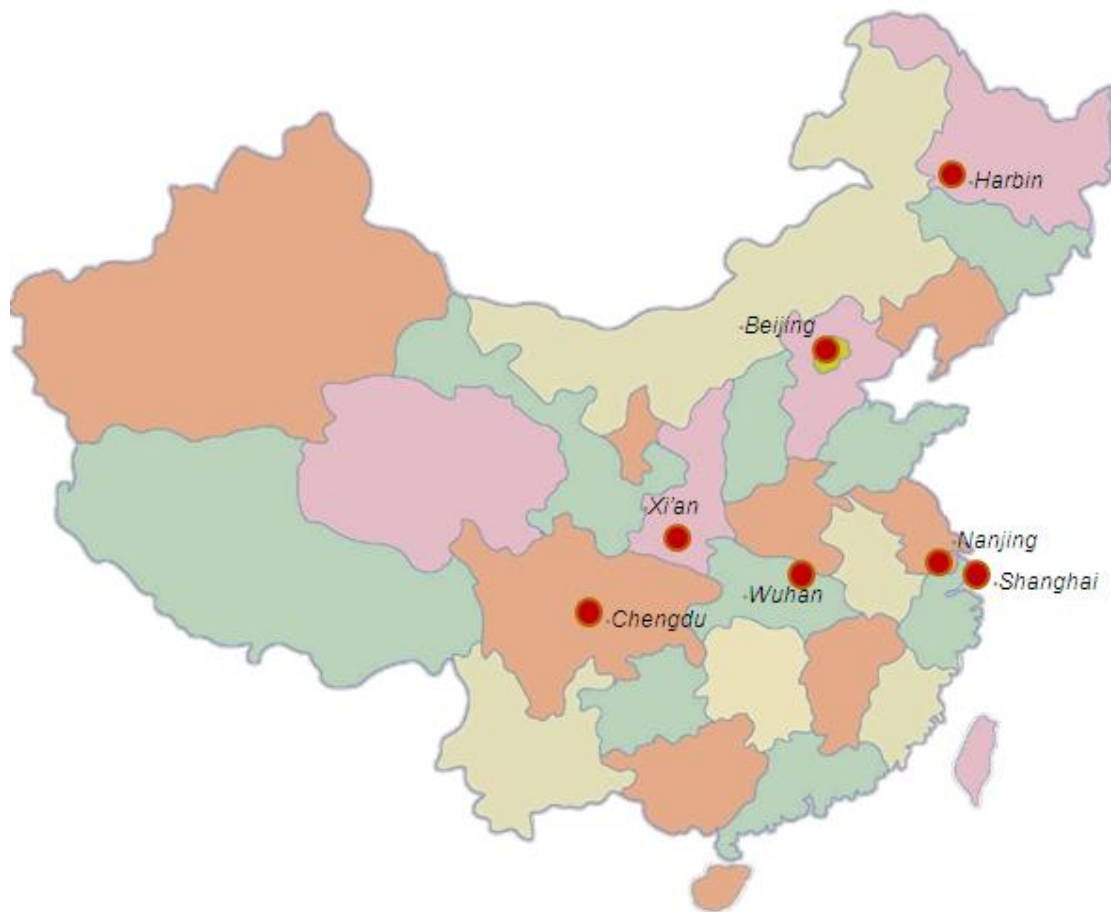
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October 2006 | IEEE Spectrum | NA

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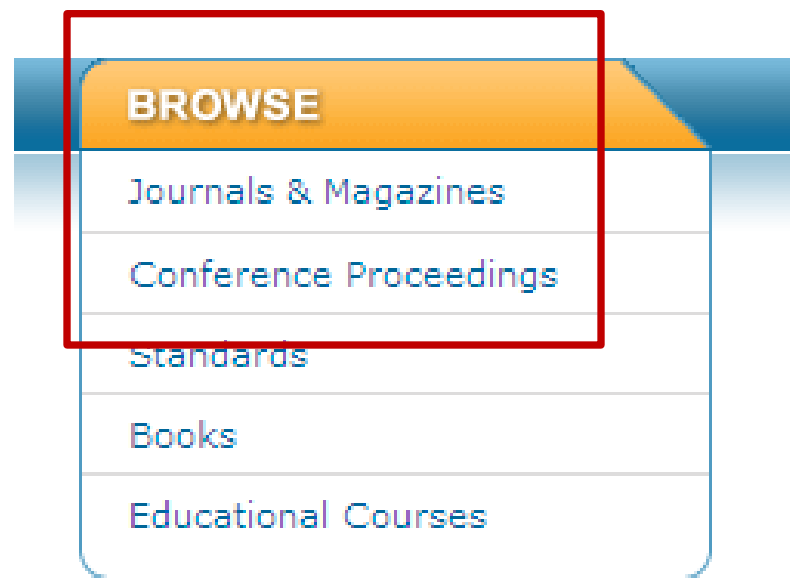
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Energy Harvesting 能量收集

Talk of the town How smart structures work



KEY: Central computers Wireless sensors Sensor nodes Wireless signals

SMART BUILDING

1. Sensors in a building monitor the building's movement in response to strong winds or earthquake tremors.
2. Shock absorbers (hydraulic dampers) can then be made to stiffen or relax and heavy weights (mass dampers) can be moved to reduce oscillations in strong winds, or minimise damage in the event of an earthquake.
3. Buildings that detect an earthquake tremor could even warn other buildings nearby of the approach of a shockwave, so they could sound an alarm and prepare themselves accordingly.

SMART BRIDGE

1. Wireless sensors mounted on the bridge monitor vibrations, displacement and temperature. This information then "hops" across the network of sensor nodes to a central computer for analysis.
2. If a problem is detected, such as a loose bolt or cable, or the beginning of a crack, a warning can be sent by SMS.

SMART TUNNEL

1. Wireless sensors mounted on the walls of a tunnel monitor displacement, temperature and humidity. This information then "hops" across the network of sensor nodes to a central computer for analysis.
2. If a problem with the tunnel lining is detected, appropriate maintenance can be carried out. In future, a smart tunnel could even use robots to perform some maintenance tasks automatically.

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- “ ” 和 * 不能一起用
 - “Fiber*” 无效
- 其他符号如 -, / 大多省略, 但是 +, & 可检索
 - phase-shift
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For the May 2010 issue, see p. 903 for the Table of Contents

JUNE 2010 VOLUME 10 NUMBER 6
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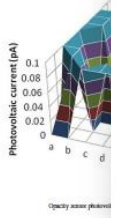
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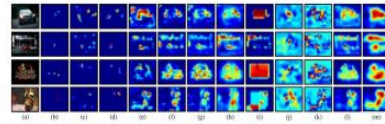
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Photovoltaic current (pA)



Capacity versus photon



Some representative results. Note that the error curves may not be centered with a Gaussian kernel, which is a popular method to recover error-free images from the measured, but degraded, image. Other methods may include: (a) K-SVD, (b) NMF, (c) Sparse Coding, (d) Sparse Coding with Dictionary Learning, (e) Sparse Coding with Dictionary Learning, (f) Sparse Coding with Dictionary Learning, (g) Sparse Coding with Dictionary Learning, (h) Sparse Coding with Dictionary Learning, (i) Sparse Coding with Dictionary Learning, (j) Sparse Coding with Dictionary Learning, (k) Sparse Coding with Dictionary Learning, (l) Sparse Coding with Dictionary Learning, (m) Sparse Coding with Dictionary Learning, (n) Sparse Coding with Dictionary Learning, (o) Sparse Coding with Dictionary Learning, (p) Sparse Coding with Dictionary Learning, (q) Sparse Coding with Dictionary Learning, (r) Sparse Coding with Dictionary Learning, (s) Sparse Coding with Dictionary Learning, (t) Sparse Coding with Dictionary Learning, (u) Sparse Coding with Dictionary Learning, (v) Sparse Coding with Dictionary Learning, (w) Sparse Coding with Dictionary Learning, (x) Sparse Coding with Dictionary Learning, (y) Sparse Coding with Dictionary Learning, (z) Sparse Coding with Dictionary Learning.

For the April 2010 issue, see p. 325 for Table of Contents
For the May 2010 issue, see p. 413 for Table of Contents
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IEEE Circuits and Power & Energy

IEEE SOLID-STATE CIRCUITS MAGAZINE


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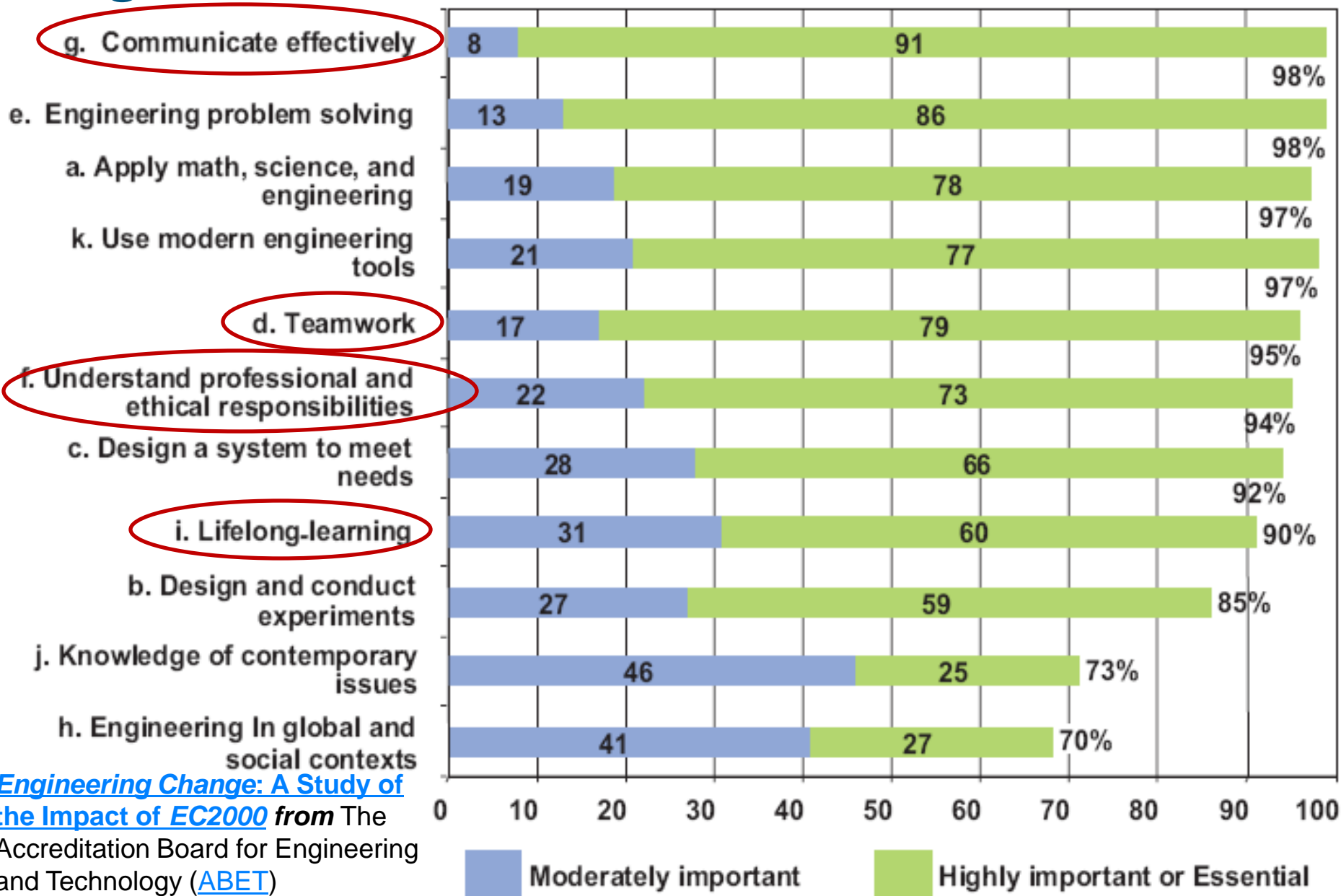
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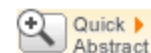
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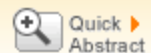
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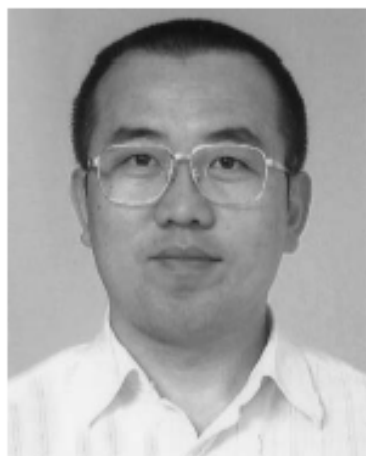
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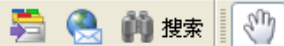


Yisheng Xue (M'08) received the Ph.D. degree in electronic engineering from Tsinghua University, Beijing, China, in 2002.

From August 2002 to October 2004, he was a Postdoctoral Researcher with the University of Duisburg–Essen, Duisburg, Germany. From November 2004 to June 2005, he held a research associate position with the Department of Electrical and Computer Engineering, McGill University, Montreal, QC, Canada. Between August 2005 to August 2007, he was a Senior Research Scientist with Siemens Corporate Technology, Beijing. He was with the Motorola Labs, Beijing, between August 2007 and September 2008. Since September 2008, he has been with Qualcomm Wireless Communication Technologies, China Ltd. His research interests include protocol design and signal processing for wireless communications.

Quick
Abstract

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A Zipper OFDM Multiple-Antenna Technique for Interleaved-FDD Cellular Communication Systems

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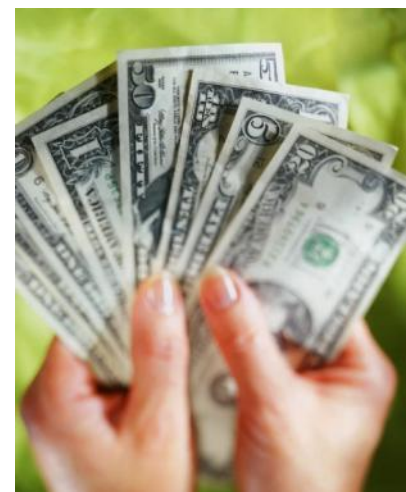
Dave works with Application Development & Delivery professionals. He is a leading expert on software development process, Agile development, Lean thinking, process improvement, project management, and requirements management. Dave earned a B.A. in computing and business from Huddersfield University in the UK and a M.Sc. in computer science from Southbank University (UK).

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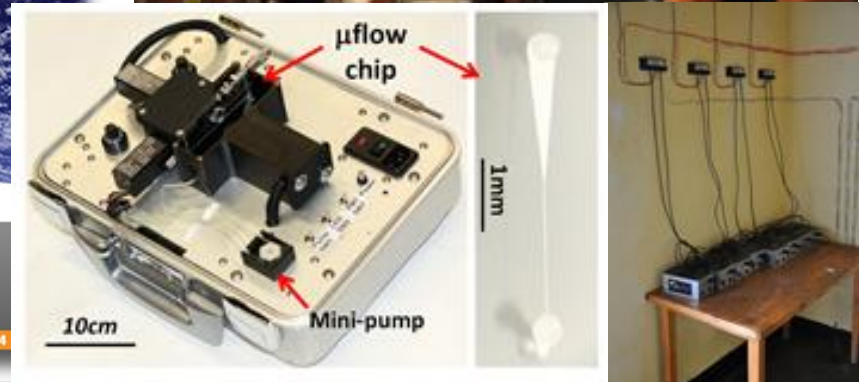
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