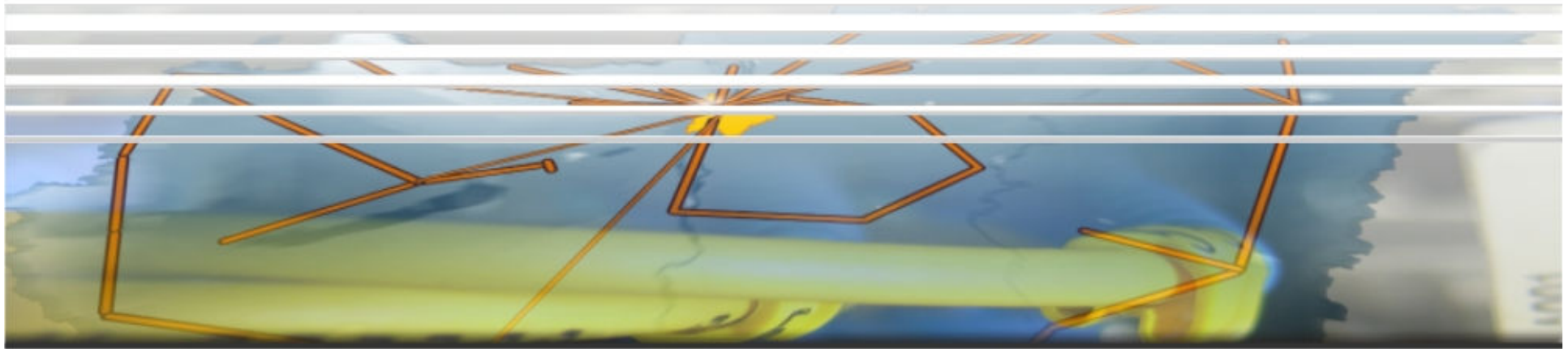


NIIF Video-on-Demand



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VICES Project partner visit

Budapest

27 May 2009



Content

- NIIF Video-on-Demand service
 - Motivation & History
 - Technology
 - Future plans

Motivation & History

- Record and publish own events:
 - NIIF community yearly conference
 - Seminars
 - Workshops
 - Other scientific events
 - Recorded videoconferences (later)
 - Material recorded by institutions (later)
- Technical goals:
 - Closest experience to reality
 - Good quality
 - Long time preservation
- Project started in 2003:
 - URL: <http://vod.niif.hu>

Technology

- Streaming and recording:
 - PC + Windows Media Encoder
 - Windows Media Services for distribution
 - Video/audio equipment:
 - IEEE-1394 camcorders (DV)
 - Video mixer
 - Mics
- Other components:
 - Own website archive framework (PHP/Linux)
 - Live broadcast director:
 - Control titles during live broadcast
 - Grab and manage slides and their sync
 - In-house developed Linux application
 - Semi-automatic archive generation
 - Linux shell scripts

Technology

- Archive:
 - 2003-2008: WMV based
 - Limited multiplatform (*UNIX)
 - ActiveX required for control
 - Dead-end
 - Migration to Flash:
 - De-facto end-user standard (available)
 - Enables full multiplatform
 - Feature rich and customizable
- Live broadcast remains Windows Media

Technology

The screenshot shows a web browser window with the URL <http://vod.niif.hu/player/index.php?q=1573/1M>. The browser's address bar also shows a Google search icon. The page content is divided into two main sections. On the left, a presentation slide titled "A víz globális körforgása" (The global water cycle) is displayed. The slide features a 3D diagram of the water cycle with labels: "csapadék" (precipitation), "lefolyás" (runoff), "talajvíz" (groundwater), "párolgás" (evaporation), "páratranszport" (water vapor transport), "kondenzáció" (condensation), and "csapadék" (precipitation). Below the diagram, it says "Vital Water Graphics (2000) után". Below the slide, there is a navigation bar for the presentation slides, labeled "Az előadás fóliái:" (The presentation slides:), with thumbnails for slides 4, 5, 6, 7, and 8. On the right, a video player shows a man in a suit, László Somlyódy, sitting at a desk with a laptop and a microphone. The video player has a progress bar showing 01:56/52:54. Below the video player, the text reads: "A tudomány az élhető Földért" (Science for a habitable Earth), "Somlyódy László (az MTA rendes tagja)" (Somlyódy László (regular member of the Hungarian Academy of Sciences)), "A víz a változó világban - néha a sok is kevés" (Water in a changing world - sometimes even a lot is not enough), "A Magyar Tudomány Ünnepe" (Hungarian Science Festival), "Előadás Dátum: 2008-11-04" (Lecture Date: 2008-11-04), and "Szervező: Magyar Tudományos Akadémia" (Organizer: Hungarian Academy of Sciences). The browser's taskbar at the bottom shows several open windows, including "NIIF Video on Demand P..." and "A tudomány az élhető F...".

Archive content

- 99% open access
 - All videos are downloadable
 - Shibboleth AAI protection is available
- Approx. 1600 scientific lectures:
 - Multi bandwidth
 - 30% English, rest Hungarian
 - 0.5-1Tbyte download/month
- Topics + some example:
 - 70% ICT (seminars, conferences, etc.)
 - Rest: everything from Biology through Mathematics to Physics

Few examples



MAGYAR TUDOMÁNYOS AKADEMIA

CO₂ atmospheric → reduction → **CH₂O + HCO₂** → **CH₃OH**

CH₄ natural source → oxidation → **CH₂O + HCO₂** → **CH₃OH**

CH₃OH → Energy storage and Fuels, Fuel Cells, Synthetic Hydrocarbons

Olaj és földgáz után: a metanolgazdaság

György Oláh (Nobel-laureate in chemistry, 1994)

Our guest: György Oláh Nobel-laureate in chemistry

The Methanol Economy to Follow Oil and Natural Gas

Lecture Date: 2005-06-06
Organizer: HAS Section of Chemical Sciences
Broadcast by: NIF/HUNGARNET

Few examples

miif Video on Demand

Higher Education
Research
Business

the European Institute of Innovation and Technology
A new Flagship for European Excellence
Governing Board
September 15. 2008

José Manuel Barroso (President of the European Commission)
[European Institute of Innovation and Technology opening ceremony](#)
Inaugural meeting of the newly appointed EIT Governing Board

Few examples – Physics experiments

niif Video on Demand



Kutatók éjszakája

Budapesti Műszaki és Gazdaságtudományi Egyetem, Fizika Intézet

2007 szeptember 28.

Nem élhetünk fizika nélkül

Károly Härtlein

[Researchers' Night](#)

We can't live without physics

Lecture Date: 2007-09-28
Organizer: Technical University of Budapest Institute of Physics

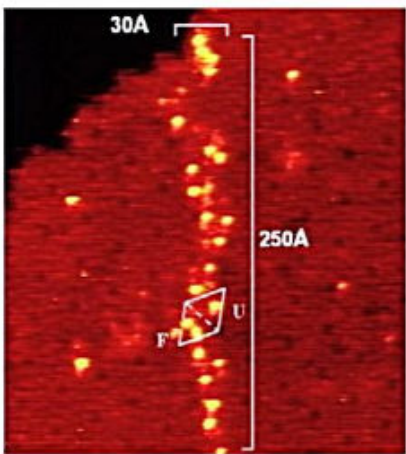
Few examples




MAGYAR TUDOMÁNYOS AKADEMIA


DIRECT OBSERVATION OF LOCALISED ATOMIC REACTION L. A. R.

Line of -4V pulses.
On ClPh,



Presentation slides:






Observation of individual molecules engaged in chemical reactions; Accompanied by some reflections on the importance of the individual, by one of Hungarian descent

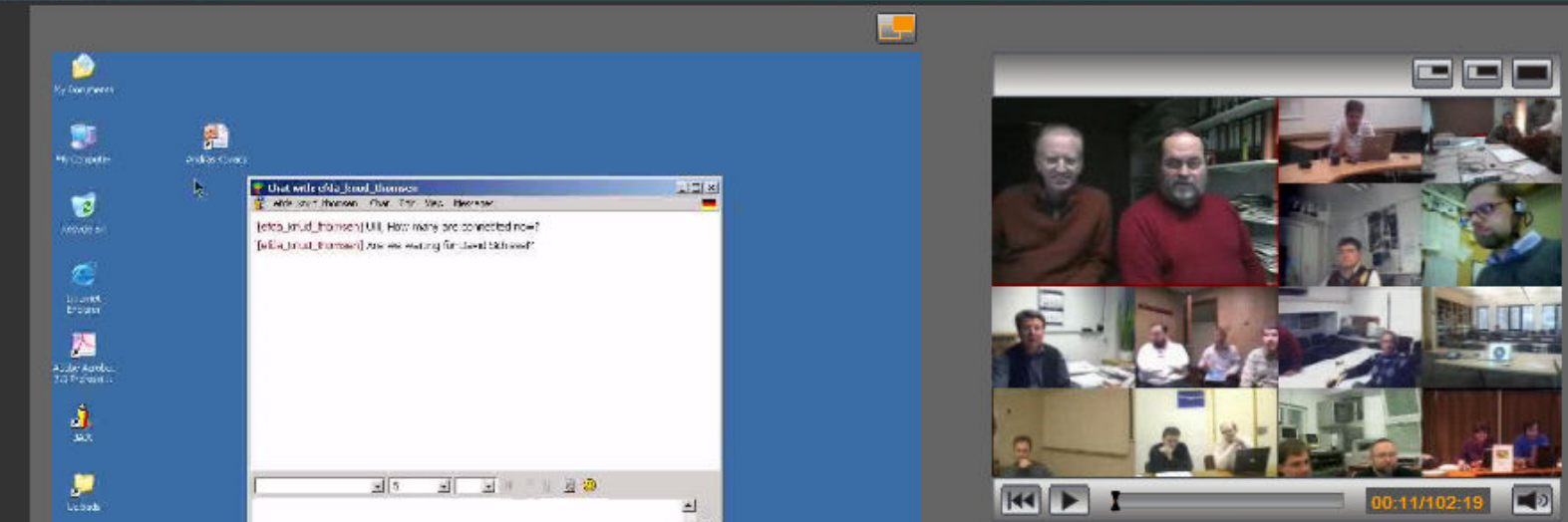
John C. Polanyi (honorary member of HAS, Nobel-laureate in chemistry)

[Lecture of John C. Polanyi](#)

Observation of individual molecules

Few examples – recorded VCs

 Video on Demand



Meeting on 17th of January, 2007

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[Vidconf-TIER](#)

Regular meeting for Topic of Interest of EFDA RP

Előadás Dátum: 2007-01-17
Szervező: IPP Garching
Közvetítés: [IPP Garching](#)

Future plans

- Modernize current portal
- Fully-featured collaborative R&E content portal
- AAI access
- Institutional sub-pages:
 - Virtually independent sub-pages per institutions
 - Own channels
 - Own design
- Professional metadata:
 - Effective search
 - Thesaurus (hier. of subject headings)
 - Content
- Federated connection to other repositories (metadata harvest)
- etc.

Thank You!



Kovács András

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