Fusion Expo

Tomaž Skobe
Fusion Expo Project Leader

Jozef Stefan Institute
Nuclear Training Centre
• Travelling Exhibition

• Prepared by EFDA

• Financed by the EC Euratom programme

• Exhibitions organized by SFA Euratom-MHEST since 2008
Public Opinion matters.

Delivering informations:
about fusion,
JET, ITER,
should be continuous event.

FUSION EXPO represents a good opportunity
for explanations of fusion power.
New Energy Technologies

- Nuclear fusion: 58%
- Hydrogen energy and cars (H2): 53%
- Geothermal energy: 44%
- Ocean energy: 43%
- Fuel cells: 41%
- 4th generation nuclear reactors: 31%
- Clean coal: 24%
- Carbon capture and storage (CCS): 21%
- ITER: 9%
- Negawatt and sustainable decrease: 7%
- None of these: 19%

Eurobarometer 2007
- general public “
- future generation”
- “decision makers”
- “opinion drivers”
**Fusion Expo Types**

**MINI**
Exhibition area
\(~50\) \(-\) \(150\) \(m^2\)

**MAXI**
Exhibition area
\(>\) \(200\) \(m^2\)

Additional storage room (50 \(m^2\)) for depositing the empty Expo boxes

Part of big *international events* or *individual exhibitions*.

Preferred duration of the Expo is *2-3 weeks*. 
<table>
<thead>
<tr>
<th>Host / Event</th>
<th>Type of participation</th>
<th>Place</th>
<th>Date</th>
<th>Number of visitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>European City of Science</td>
<td>Maxi Expo</td>
<td>Paris, France</td>
<td>14&lt;sup&gt;th&lt;/sup&gt; to 16&lt;sup&gt;th&lt;/sup&gt; November 2008</td>
<td>5.000</td>
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<tr>
<td>Association Euratom MHEST</td>
<td>Mini Expo</td>
<td>Ljubljana, Slovenia</td>
<td>10&lt;sup&gt;th&lt;/sup&gt; - 20&lt;sup&gt;th&lt;/sup&gt; March 2009</td>
<td>3.500</td>
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<tr>
<td>Research Connection 2009</td>
<td>Some parts of the Expo</td>
<td>Prague, Czech Republic</td>
<td>7&lt;sup&gt;th&lt;/sup&gt; - 8&lt;sup&gt;th&lt;/sup&gt; May 2009</td>
<td>1.310</td>
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<tr>
<td>Association Euratom IPPLM</td>
<td>Maxi Expo</td>
<td>Łódz, Poland</td>
<td>27&lt;sup&gt;th&lt;/sup&gt; May - 9&lt;sup&gt;th&lt;/sup&gt; June 2009</td>
<td>2.700</td>
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<td>Association Euratom IPPLM</td>
<td>Maxi Expo</td>
<td>Szczecin, Poland</td>
<td>15&lt;sup&gt;th&lt;/sup&gt; June - 15&lt;sup&gt;th&lt;/sup&gt; July 2009</td>
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<td>Sziget Festival 2009, KFKI</td>
<td>Support Action</td>
<td>Budapest, Hungary</td>
<td>12&lt;sup&gt;th&lt;/sup&gt; – 17&lt;sup&gt;th&lt;/sup&gt; August 2009</td>
<td>1.000</td>
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<td>Association Euratom IPPLM</td>
<td>Maxi Expo</td>
<td>Łódz, Poland</td>
<td>10&lt;sup&gt;th&lt;/sup&gt; - 25&lt;sup&gt;th&lt;/sup&gt; October 2009</td>
<td>2.531</td>
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<tr>
<td>Association Euratom IPPLM</td>
<td>Maxi Expo</td>
<td>Katowice, Poland</td>
<td>3&lt;sup&gt;rd&lt;/sup&gt; - 20&lt;sup&gt;th&lt;/sup&gt; November 2009</td>
<td>6.000</td>
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<tr>
<td>Irish Science Week, DCU</td>
<td>Mini Expo</td>
<td>Dublin, Ireland</td>
<td>10&lt;sup&gt;th&lt;/sup&gt; – 13&lt;sup&gt;th&lt;/sup&gt; November 2009</td>
<td>3.000</td>
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<tr>
<td>Irish Science Week, UCC</td>
<td>Mini Expo</td>
<td>Cork, Ireland</td>
<td>17&lt;sup&gt;th&lt;/sup&gt; - 22&lt;sup&gt;nd&lt;/sup&gt; November 2009</td>
<td>173*</td>
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<tr>
<td>Museum of Science and Technology of Catalonia, CIEMAT</td>
<td>Maxi Expo</td>
<td>Terrassa, Spain</td>
<td>4&lt;sup&gt;th&lt;/sup&gt; March – 2&lt;sup&gt;nd&lt;/sup&gt; May 2010</td>
<td>N/A</td>
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<tr>
<td>Educational fair, F4E</td>
<td>Mini Expo</td>
<td>Barcelona, Spain</td>
<td>17&lt;sup&gt;th&lt;/sup&gt; – 21&lt;sup&gt;st&lt;/sup&gt; March 2010</td>
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<td>ESOF 2010</td>
<td>Support Action</td>
<td>Torino, Italy</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt; - 7&lt;sup&gt;th&lt;/sup&gt; July 2010</td>
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<td>Sziget Festival 2010, KFKI</td>
<td>Support Action</td>
<td>Budapest, Hungary</td>
<td>11&lt;sup&gt;th&lt;/sup&gt; 16&lt;sup&gt;th&lt;/sup&gt; August 2010</td>
<td>N/A</td>
</tr>
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</table>
Venues

- Public place, Bratislava
- University, Vienna
- Gallery, Ljubljana

- Central position
- Easy to access by public transport
- Being a popular place is an advantage
- Accessible for the Fusion Expo truck
• 2 Thematic Islands (fusion and ITER)
  – Posters with texts and images
  – Screens showing fusion related movies
  – Computers with interactive content

• Models (related to fusion research)

• Booklets and DVDs in national language

• Guides (provided by the host)

• Optional: Attractive experiments for different levels

• Optional: Lectures, Road show, etc.
Fusion
Describes the basics of fusion

ITER
Illustrates the ITER design
Interactive ITER model
Presents particular parts of the reactor

Reactor site model
Presents scheme of future fusion powerplant
Fusion EXPO Models

Stellarator model

Plasma Ball

Toroidal Plasma Tube "Mellator"
Reactor Section

3D ITER image

ITER – JET model
Optional

**Bicycle:**  
“manpower power plant”

**Microwave oven induced plasma**
3D projection on big screen
Starmakers

3D Theater
Fusia
The power of a guide: enthusiasm
Advertising Fusion Expo
Conclusions

- Fusion Expo increases general level of knowledge,
- positive media attention,
- support public information,
- good method for interactive explanations.

“Tell them and they will forget. Show them and they will remember. Involve them and they will understand”. 
Hosting the Fusion Expo

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Please do not hesitate to contact me.
Visit the galleries at Fusion Expo web page and explore more about the previous events:

www.fusion-expo.eu