



National Physical Laboratory

New opportunities for working with NPL

Steven Judge

Topics

- ‘Measurement for innovators’ scheme
- Possible new website design for the Neutron Users Group

'Measurement for innovators' scheme

You have had the innovative idea, designed and built the product, but how do you accurately show your design is better than what's gone before? Is a measurement problem blocking your route to market?

There is a measurement problem, but you're not sure how to solve it. Alternatively, the equipment you need is prohibitively expensive and you'd only need to use it for a short duration and there is no commercial service supplier in the UK.

- Free consultancy
- Joint projects
- Secondments

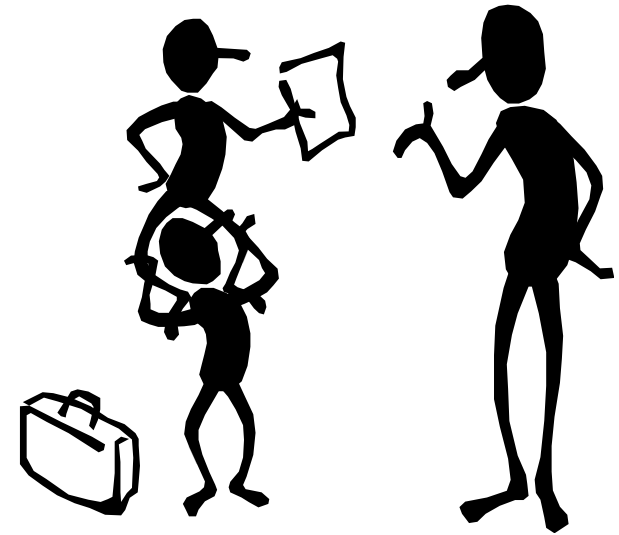
Free consultancy work

- NPL can offer up to 4 days free consultancy work
- For advice on a product, service or process
- Suitable for a 'case study'
- Must not be in competition with existing products etc
- Open to all SME's (<250 employees, turnover less than £35 million)



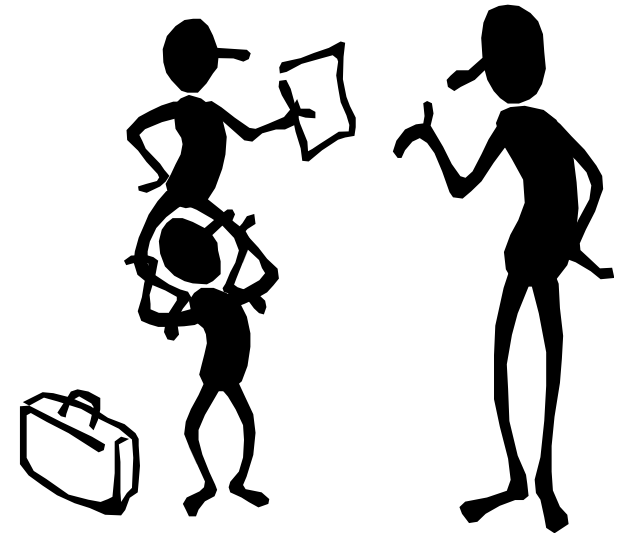
Joint projects

- Co-funded access to NPL's facilities and expertise
- Collaborative – with other companies/universities/users
- Broad range of topics – desk studies, R&D, feasibility studies, new test methods, new standards, best practice, benchmarking



Joint projects

- Short term (<12 months)
- Any knowledge generated should be publishable (after a delay of up to 12 months)
- Exploitable outputs – clear routes for how the results will be used
- Open to all – not restricted to SME's



Secondments

- Two-way exchange of knowledge and skills
- To or from NPL
- Open to industry, universities, professional bodies, govt departments, regional organisations...
- 1 week to 9 months, full or part time



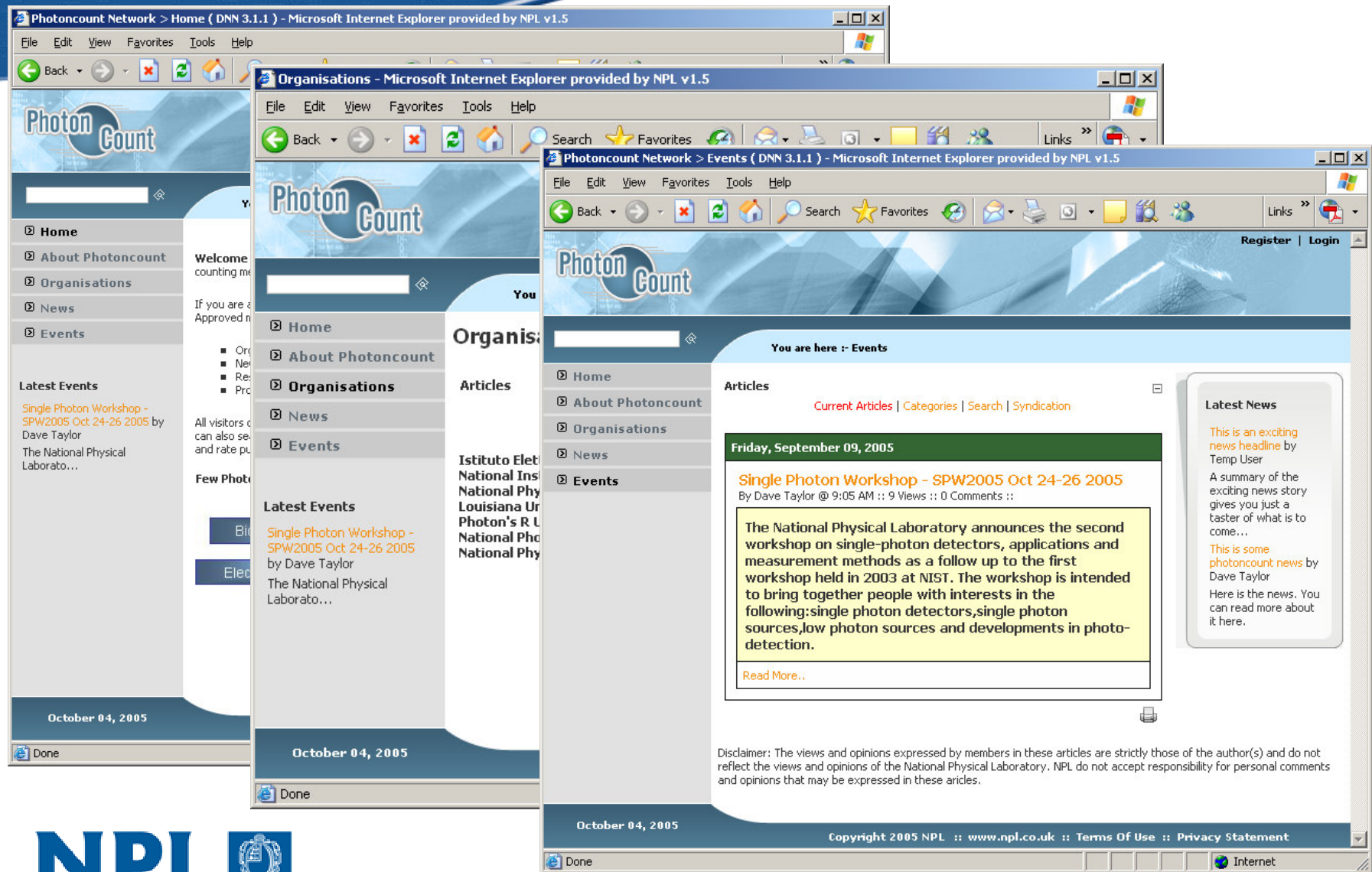
More information

http://www.npl.co.uk/measurement_for_innovators/

Proposal for a new-style web-site

- More interactive
- Information from other organisations in the group

The public site lists organisations, news and events



Approved members can add their own articles to the site

Photoncount Network > Home (DNN 3.1.1) - Microsoft Internet Explorer provided by NPL v1.5

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Links

Photon Count Dave Writer | Logout

You are here :- Home

Welcome to the Photon Counting Network - the portal for the single photon and the photon counting measurement community.

If you are already a member please [Login](#), or you can [Register here](#) to become a member. Approved members can add their own articles to the site, in any of the following categories:

- Organisations: Describe your organisation or group.
- News & Events: Add your own news items or events.
- Research Interests: This information can only be viewed by other members.
- Product Descriptions: This information can only be viewed by other members.

All visitors can search news articles and events using the search box provided. Registered members can also search [research interests and products](#) here. Members can leave feedback or comments, and rate published articles.

Latest News

This is an exciting news headline by Temp User

A summary of the exciting news story gives you just a taster of what is to come...

This is some photoncount news by Dave Taylor

Here is the news. You can read more about it here.

Few Photons Mindmap

```
graph TD
    photon_count[photon count] --- Metrology1[Metrology]
    photon_count --- Quantum[Quantum Information Processing]
    photon_count --- Medical[Medical Physics]
    photon_count --- Military[Military]
    photon_count --- Meteorology2[Meteorology]
    photon_count --- Space[Space Applications]
    photon_count --- Electronics[Electronics]
    photon_count --- Biotech[Biotechnology]
```

October 04, 2005

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• Describe organisation

• Add own news items or events

• Add research interests, products and other articles (can only be viewed by other members)

All visitors can see news and events

Members can also leave feedback or comments on any of the published articles.

Research interests or products

The screenshot shows a Microsoft Internet Explorer browser window displaying the Photon Count website. The browser title is "Research Interests and Products - Microsoft Internet Explorer provided by NPL v1.5". The website has a blue header with the "Photon Count" logo. A navigation menu on the left includes links for Home, About Photoncount, Organisations, News, Events, and Research Interests and Products. The main content area features a "Research Interests and Products Register" section with a date of "Thursday, September 22, 2005". A featured article titled "Perpetual Motion" is highlighted, with a description: "Fantastic products that are not yet developed. Here is the description. Who would like one?". A sidebar on the right contains "Latest News" with two entries. The footer includes the date "October 04, 2005" and copyright information for NPL.

Research Interests and Products - Microsoft Internet Explorer provided by NPL v1.5

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Photon Count

Dave Writer | Logout

You are here :- Research Interests and Products

Q. [Click here for instructions on how to create and edit articles](#)

Research Interests and Products Register

[Current Articles](#) | [Categories](#) | [Search](#)
[My Articles](#) | [Create Article](#)

Thursday, September 22, 2005

Perpetual Motion

This is a product description
By Dave Taylor @ 9:54 AM :: 2 Views :: 1 Comments ::

Fantastic products that are not yet developed. Here is the description. Who would like one ?

Disclaimer: The views and opinions expressed by members in these articles are strictly those of the author(s) and do not reflect the views and opinions of the National Physical Laboratory. NPL do not accept responsibility for personal comments and opinions that may be expressed in these articles.

Latest News

[This is an exciting news headline](#) by Temp User
A summary of the exciting news story gives you just a taster of what is to come...

[This is some photoncount news](#) by Dave Taylor
Here is the news. You can read more about it here.

October 04, 2005

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Internet

News and events

The screenshot shows a Microsoft Internet Explorer browser window titled "News - Microsoft Internet Explorer provided by NPL v1.5". The browser's address bar is empty, and the page content is from the Photon Count website. The website has a blue header with the "Photon Count" logo and a navigation menu on the left. The main content area is titled "You are here :: News" and contains a list of news articles. The first article is dated "Wednesday, September 28, 2005" and has a placeholder image labeled "Temporary Image (insert image here)". The headline is "This is an exciting news headline" and the author is "By Temp User @ 6:47 AM :: 3 Views :: 0 Comments ::". Below the headline is a summary: "A summary of the exciting news story gives you just a taster of what is to come..." and a "Read More.." link. The second article is dated "Friday, September 09, 2005" and has the headline "This is some photoncount news" by "By Dave Taylor @ 7:43 AM :: 6 Views :: 0 Comments ::". Its summary is "Here is the news. You can read more about it here." with a "Read More.." link. On the right side of the page, there is a "Latest Events" box listing "Single Photon Workshop - SPW2005 Oct 24-26 2005 by Dave Taylor" and "The National Physical Laborato...". The browser's status bar at the bottom shows "Done" and "Internet".

News - Microsoft Internet Explorer provided by NPL v1.5

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Links

Photon Count Dave Writer | Logout


You are here :: News

Home About Photoncount Organisations News Events Research Interests and Products

Q. [Click here for instruction on how to create and edit articles](#)

Articles [Current Articles](#) | [Categories](#) | [Search](#) | [Syndication](#) | [My Articles](#) | [Create Article](#)

Wednesday, September 28, 2005

 This is an exciting news headline
By Temp User @ 6:47 AM :: 3 Views :: 0 Comments ::

A summary of the exciting news story gives you just a taster of what is to come...

[Read More..](#)

Friday, September 09, 2005

This is some photoncount news
By Dave Taylor @ 7:43 AM :: 6 Views :: 0 Comments ::

Here is the news. You can read more about it here.

[Read More..](#)

Latest Events

- [Single Photon Workshop - SPW2005 Oct 24-26 2005 by Dave Taylor](#)
- [The National Physical Laborato...](#)

Done Internet

Creating an article

The screenshot shows a Microsoft Internet Explorer browser window displaying the Photon Count website. The browser title is "Organisations - Microsoft Internet Explorer provided by NPL v1.5". The website has a navigation menu on the left with items: Home, About Photoncount, Organisations, News, Events, and Research Interests and Products. The main content area is titled "Submit Article" and includes a breadcrumb trail "You are here > Organisations". There are links for "Current Articles", "Categories", "Search", "My Articles", and "Create Article". The "Submit Article" section contains a form with the following fields:

- Title:** A text box containing "The Few Photon Metrology Project".
- Categories:** A list of checkboxes: Events, News, Organisation, Products, and Research (checked).
- Summary:** Radio buttons for "Basic Text Box" and "Rich Text Editor" (selected).

The Rich Text Editor is open, showing a toolbar with various formatting options (bold, italic, underline, color, highlight, font size, text color, background color, bulleted list, numbered list, indent, outdent, link, unlink, insert image, insert table, insert link, insert table of contents, undo, redo) and a text area containing the following text:

The **Few Photon Metrology** project is concerned with establishing high accuracy measurement methods for systems operating in the low photon counting regime. For example single photon counting detectors are currently being developed to meet the demands of applications such as quantum cryptography and quantum computing, and accurate calibration of these detectors is necessary to establish the overall performance of these systems.