

IC2024ph Coordinator's work

Christian Gärtner

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Coordinator

Christian Gärtner

- working at Seibersdorf since 1994
- staff member of the Dosimetry Laboratory Seibersdorf for 21 years
- responsible for verifications and calibrations of radiation protection dosimeters
- staff member of the Seibersdorf Academy
- creator and developer of the EURADOS Online Platform
- coordinator of the EURADOS intercomparisons
IC2014ph, IC2015ext, IC2016ph, IC2022ph, IC2024ph
- administrator of all EURADOS intercomparisons since 2014
- Head of the Red Cross special unit “CBRN decontamination”
- Master of Science in Healthcare Management (Master Thesis: “Methods for preclinical decontamination of contaminated patients”)



Key features:

- easy to use
- platform independent: useable regardless of the participant's browser (only standard html, no java-script, ...)
- secure: https, database on a different server, login data is one-way-encrypted, extensive logging, detecting of brute-force-attacks, ...
- real-time: participants can monitor the status of the intercomparison and their Dosimetry System in real-time
- one-stop-shop: all relevant information regarding the IC2024ph is available (including documents, ...)
- multilingual: available in different languages (at the moment in English and German, more languages can be added easily)
- reusable: all intercomparison-specific data is stored in a configuration file and so the online platform can be easily used for the next intercomparison

Online Platform

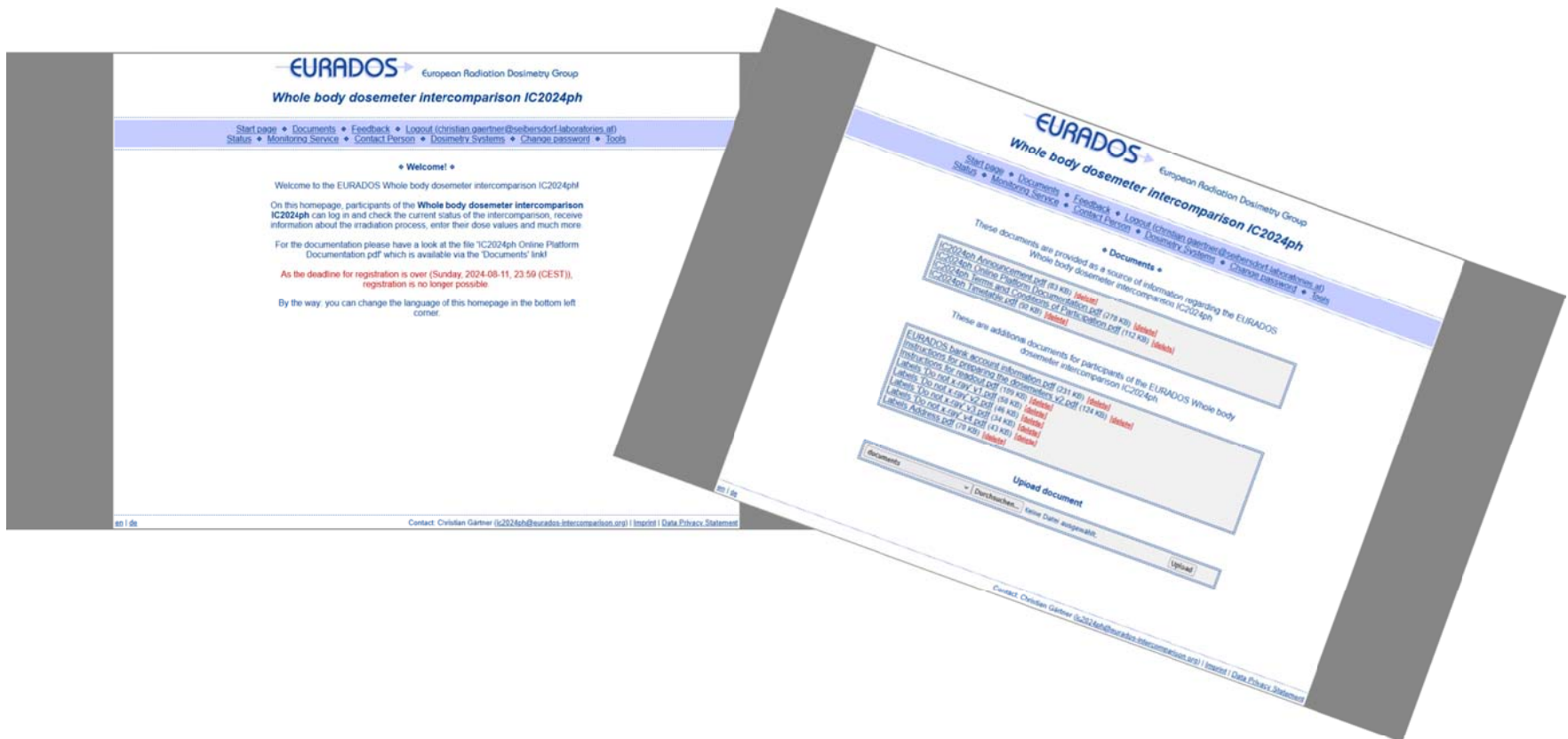
Implementation:

- 14,751 lines of php code
- 7 database tables with 27,300 records
- countless hours of programming and testing ☺
- now we have an online platform which makes life easier for the participants as well as the coordinator
- it has been used for 14 intercomparisons since 2014

```
20
21
22 _DB_Connect ();
23 if ($Options['LoggedIn_Username'] == "") {
24     header ("Location: ".$Options['Project_HomepageFile']."?id=90");
25     exit;
26 }
27
28 switch ($TargetPage) {
29     case 42: // Dosimetry System, Edit
30         break;
31         _I("DOSYS_EDIT");
32
33         print "<IMG SRC=\"graphics/_diamond.png\"><B>".$Title."</B><br><IMG SRC=\"graphics/_diamond.png\"><P>";
34         if (!$_Privilege ("coordinator")) {
35             print "<P STYLE=\"width:".$Options['Project_ParagraphWidth'].\">";
36         } else {
37             if ((date("Y-m-d H:i:s") > $Options['RegistrationDosSys_Begin']) && (date("Y-m-d H:i:s") < $Options['Registr_
38                 print "<A HREF=\"".$Options['Project_HomepageFile']."?id=42&pl=0\"><U>(\"_I("DOSYS_NEW").")</A></U><BR><BR>";
39             } else {
40                 print "<P STYLE=\"width:".$Options['Project_ParagraphWidth'].\">";
41             }
42         }
43         print "<TABLE WIDTH=\"".$Options['Project_TableWidth_Total'].\"px BORDER=1><TR><TD>";
44         $Data = mysql_query ("SELECT ID, System_MonitoringService, System_Identification FROM dosemeter_system WHERE
45             $i = 0;");
46         while ($Row = mysql_fetch_object ($Data)) {
47             if (!$_Privilege ("coordinator")) {
48                 $i = $i + 1;
49             }
50             if ($i > 1) {
51                 print "<TR HEIGHT=5px><TD COLSPAN=2 BACKGROUND=\"graphics/_line.png\"></TD></TR>";
52             }
53             print _TableRow_DosemeterSystem ($Options['LoggedIn_ID'],
54                 mysql_free_result ($Data);
55             if ($i == 0) {
56                 print "<TR><TD WIDTH=100%>\"_I("NO_DOSYS").\"</TD></TR>";
57             }
58             print "</TD></TR></TABLE><br><BR>";
```

Online Platform

Start page, Documents page:



Contact Person, Monitoring Service:

6

Dosimetry System, Status Page:

The screenshot displays the EURADOS Whole body dose meter intercomparison IC2024ph website. The header includes the EURADOS logo and the European Radiation Dosimetry Group name. A navigation bar contains links for Start page, Documents, Feedback, Local (national) websites, Contact Person, Monitoring service, Dosimetry Systems, and Dosimetry Systems - Calibration Laboratory. Below the navigation bar, there are two tabs: Status and Data. The Status tab is active, showing a list of tasks and their completion status.

Task	Status	Date
Monitoring Service and Contact Person registered and confirmed:	☒	2024-2024-07-22 11:02:58 CEST
Dosimetry System(s) registered:	☒	
Signed Application Form received:	☒	
Participation confirmed by EURADOS:	☒	
Invoice data forwarded to EURADOS:	☒	
Invoice sent out by EURADOS:	☒	
Payment received by EURADOS:	☒	
Dosimeter IDs entered online:	☒	
Dosimeters sent to the coordinator:	☒	
Dosimeters received by the coordinator:	☒	
Dosimeters sent back:	☒	
Dosimeters arrived at home:	☒	
Dose Values Form received:	☒	
Final Report received via standard mail:	☒	

IC2024ph – Coordinator's work

Sending, receiving and answering emails:

- 1,424 incoming emails from participants
- 761 outgoing emails answered manually
- 4,411 emails sent by the online platform (status updates, forms, ...)
- 6,596 emails in total

IC2024ph – Online Platform

Statistics:

The screenshot displays the EURADOS IC2024ph online platform. The top section, titled 'Monitoring Services', lists 89 services from 37 countries. The bottom section, titled 'Dosimetry Systems', lists 116 systems, including 92 H_p(10) and H_p(0.07), and 24 H_p(10) only.

Monitoring Service	Dosimetry System
Argentina, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Chile, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, India, Israel, Italy, Japan, Kosovo, Lithuania, Luxembourg, Montenegro, Morocco, Netherlands, North Macedonia, Poland, Portugal, Romania, Serbia, Slovenia, Spain, Switzerland, Turkey, Ukraine, United Kingdom, United States	92 H _p (10) and H _p (0.07), 24 H _p (10) only

Details:

- 89 Monitoring Services from 37 countries: Argentina; Austria; Belgium; Bosnia and Herzegovina; Brazil; Bulgaria; Chile; Croatia; Czech Republic; Denmark; Estonia; Finland; France; Germany; Greece; India; Israel; Italy; Japan; Kosovo; Lithuania; Luxembourg; Montenegro; Morocco; Netherlands; North Macedonia; Poland; Portugal; Romania; Serbia; Slovenia; Spain; Switzerland; Turkey; Ukraine; United Kingdom; United States;
- 116 Dosimetry Systems: 92 H_p(10) and H_p(0.07), 24 H_p(10) only

IC2024ph – Dosemeter Handling

Sending the dosimeters:



IC2024ph – Dosemeter Handling

Receiving the dosimeters:



Transport details:

- transport overland to and from the irradiating laboratory
- transport only within EU countries to avoid x-ray controls at the EU external borders
- accompanying APDs in each carrier box
- total dose of 280 μSv for transport dose and background dose in Seibersdorf and at the irradiating laboratory (August to December)

IC2024ph – Coordinator's work

Conclusion:

- YES,
- ... it was a ton of work!
- ... there were countless hours spent in developing the Online Platform.
- ... there were many evenings spent with intercomparison issues.
- ... challenges and questions emerged that I hadn't expected.

- BUT:
- ... it was always nice to have contact with the participants.
- ... it made me proud to see how well the Online Platform was running.
- ... it was a great experience to be coordinator of this intercomparison.
- ... and I am looking forward to the next EURADOS intercomparison! 😊

Whoops!



Thank you, DHL! :-)

Thank you for your attention!