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DELIVERABLE D3.8

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со	Confidential, only for Beneficiaries of the A-CINCH project				



Version control table

Version number	Date of issue	Author(s)	Brief description of changes made
1.0	24 th Oct. 2023	Jon Petter Omtvedt	Initial draft – history and status of
			NucWik
1.1	26 th Oct. 2023	Jon Petter Omtvedt	Added screen shots
1.2	29/10/2023	Nick Owens	Second version
1.3	02/11/2023	Elena Macerata	WP leader check and approval
1.4	02/11/2023	Jana Peroutková	MST check
1.5	16/11/2023	Mojmír Němec	Coordinator's check and approval

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EXECUTIVE SUMMARY

NucWik had been developed over the course of all four CINCH projects to be a Wiki-based resource for teachers and students of radio- and nuclear chemistry. It is now hosted on a site run by CTU where it is now available to all (<u>https://nucwik.cinch-project.eu/</u>). The content has been checked and is now certified by the CINCH project to be of sufficiently high standard to be publicly available. NucWik has the potential to have more material added to it future years to keep it up-to-date with current trends in teaching and learning.

Contributors to the NucWik work in the current project (A-CINCH) and reported on in this Deliverable are:

- Jon Petter Omtvedt (UiO)
- Deniz Avsar (UiO)
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1 NUCWIK HISTORY AND BACKGROUND

This chapter have mostly been copied from the MEET-CINCH Deliverable 7.3, but updated with changes added in the current A-CINCH project work reported on here. By doing this the current document contains a complete history of the NucWik site and work, without need to go through several generations of documents.

Early in the CINCH-project series an idea was developed to provide a website for sharing and distributing material for teaching nuclear and radiochemistry. The idea was that this should be an open and freely available site where teaching material could be collected and organised in a logical and easy to find way. Furthermore, it should provide a platform where it was easy for teachers from anywhere to collaborate on developing and creating new or enhanced material. For this reason, a wiki-platform was selected as it should be an ideal tool for achieving document sharing and codevelopment between users without interference from a top-level management. The platform was planned to be user managed and driven by teachers benefitting from collaboration with other teachers across institutional and national borders.

What is a wiki site?

A wiki is a hypertext publication collaboratively edited and managed by its own audience directly using a web browser. A typical wiki contains multiple pages for the subjects or scope of the project and may be either open to the public or limited to use within an organization for maintaining its internal knowledge base.

Wikis are enabled by wiki software, otherwise known as wiki engines. A wiki engine, being a form of a content management system, differs from other web-based systems such as blog software, in that the content is created without any defined owner or leader, and wikis have little inherent structure, allowing structure to emerge according to the needs of the users. Wiki engines usually allow content to be written using a simplified markup language and sometimes edited with the help of a rich-text editor. There are dozens of different wiki engines in use, both standalone and part of other software.

Source: Wikipedia.org

The task description (for the first CINCH project – CINCH) was:

Task 5.3 Setting up and implementing an interactive database of teaching material and aids

A suitable interactive database must be identified, most probable in the form of a wiki. A reliable service provider for the database must be found, preferentially free of charge (a university, most likely). The database structure and organisation will be established and initial material (from Task 5.1, the other WPs and other sources) entered into the database. Integration with the e learning platform must be tested and verified, and guidelines developed and written. Questions related to IPR will be evaluated.



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As a result of this task the first NucWik – Nuclear and Radiochemistry Teaching Material Wiki - was run on servers provided by UiO and was one of the Deliverables from CINCH. Its Norwegian origin was recognised in that NucWik actually was spelt with a "k" and not a "c" – NukWik. Here is how it looked:



Three Deliverables about NucWik (or NukWik) came from CINCH:

- D5.4: Up and running interactive database providing teaching material and aids for nuclear chemistry;
- D5.5: Description of and user manual for the database;
- D5.6: Evaluation of how teachers and students experience working with the interactive database.

The main conclusion was that it seemed as a very useful tool, but access to it for none-UiO users was too difficult. Therefore, in the next CINCH project – CINCH-II – it was decided to move it to a new platform. This constituted Task 3.1 and Deliverable 3.3: "Wiki for sharing and developing teaching material established" (June 2014). The commercial wikispaces.com service was selected to host the new NucWik. This time, NucWik was spelt properly – with a "c". The new site looked like this:



All material from the old UiO wiki-site was transferred to the new site and new material was added. During this project it became more and more clear that to entice teachers to actively contribute was A-CINCH – Deliverable 3.8 Page 7 / 15



very difficult and few pages was actually the result of active collaboration. Instead most of the material had been uploaded by the creators – teachers from the CINCH collaboration – and was mostly copy and paste from laboratory manuals and other material thought to be worth sharing. Nevertheless, NucWik under CINCH-II evolved into a comprehensive database of teaching material for Nuclear and Radiochemistry.



Part of the work in CINCH-II was to write a textbook "Basics of Nuclear Physics and of Radiation Detection and Measurement" which should be an open-access textbook for nuclear and radiochemistry students. The book was written by Jukka Lehto (Univ. of Helsinki) in 2015 and converted to the EPUB format and made available from NucWik in 2016, at the end of the CINCH-II project.

For the third CINCH project – MEET CINCH – UiO unexpectedly did not get funding and was initially left out. Nevertheless, the UiO crew maintained the NucWik database on Wikispaces.com to ensure that material was not lost and that it could be continued to be one of the major platforms used by the CINCH consortium. However, in 2018 WikiSpaces.com was shutting down its services, including the NucWik site. It was therefore very important to 1) save the material and 2) transfer it to a new site. This was done by the UiO crew such that no material was lost. Since resources was scarce all content was simply transferred to an ordinary web-site server. However, the structure and formatting provided by the Wiki engine could not be copied and the material now constituted a long list of HTML formatted pages. It was therefore very hard to locate material that previously was easy to find under the logical overlay structure provided by the WikiSpace.com server. The new site is maintained by the commercial service One.com on a strictly commercial basis. Is therefore much less likely to be shut down and the fee is reasonable. The main purpose at this point was to ensure that no material was lost.

Fortunately, UiO was able to join the MEET-CINCH project as an official partner after having received a limited amount of funding for 2019/2020. The main task for UiO was to upgrade the remote control system RoboLab, this is described in Deliverable 7.1 and 7.2 and constituted the major part of the UiO effort and contribution. However, a few PMs were dedicated to "overhaul" the new NucWik site to rebuild the structure and navigation tools needed to easily access the material. This work constituted Deliverable 7.3: "NucWik.com Overhaul ".

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for the new site it was decided to develop it as an ordinary web-site instead. A wiki engine can be added at a later stage, but the work and hassle of doing so was not considered worth it unless there are clear indications that teachers actually want to work together in this way. This is a pity, as the concept is quite good – we think – and should have provided a method to reduce the individual burdens of maintaining up-to-date teaching material. However, as everybody really likes to download but mostly contribute very little to the content of the site, the new NucWik is currently set up as a strict content service. From a practical point of view, the available funding would not have been enough to set up a dedicated wiki engine, so this was also a decision based on the available resources for doing the work.

The new site looks like this:

→ C A	nucwik.com					☆	()	6
	Nuc	Wik 🛞	Nuc lear and Teaching Ma	l Radioch aterial W i	nemistry iki cnee			•
	Home	Exercises	Textbooks	About	Contact			
		Welcor	ne to Nu	cWik!				
teachers teach alp you in teachi	ing at Universities. At N ng Nuclear and Radioch	ucWik you will find ready emistry (NRC).	made texts, explanations,	illustrations, calcula	ation exercises, labora	tory exerci	ses, et	c. to
	ercises		Textbooks		About N	a NucWi	k	
Material for and calc	r laboratory, training, culation exercises Goto Page	Free Nut	e and open texbooks about clear and Radiochemistry Goto Page		Find more info	rmation ab e NucWik Page	but	
ucWik was oper ucWik as a norn naterial! We stror nhance the quali	rated as a wiki until Mar nal web-site for the time ngly urge you to contribu ity of our teaching! Pleas	ch 2018, but after our hos being. Even if it is no long te, the usefulness and qua e contact us if you have m	st WikiSpaces.com decided ger operated as a wiki, we ality of NucWik depend on a laterial to share!	I to terminate their s still hope that you w as many people as	service by June 2018 vill help us to develop possible contribute - h	it was deo even more nelp yourse	ided to and b If and u	run etter is to
lucWik was crea veb-pages at: http	ted as part of the CINC p://cinch-project.eu/inde>	H EU-project for evaluatin c.php for details about this	g and planing nuclear and project.	radiochemistry tead	ching in Europe. Plea	se refer to	the CII	ICH
 Pree textbook Link for mater 	to Frequently Use "Basics of Nuclear Phys ial from old NucWik site	d Material iics and of Radiation Deter (at WikiSpaces.com) - http	ction Measurement" (Jukka os://nucwik.com/From_Wiki	Lehto, 2016) Spaces/table_of_co	ntent.html			
		Please contact u	s if vou have materia	l to share!				

The new NucWik on the one.com commercial site has the domain name nucwik.com and was (and still is), an open access and free site. We plan to discontinue this site from end of 2024, until then the material that was not transferred to the new NucWik site (described in the following chapters) can be found on the old site.



2 THE NEW NUCWIK SITE

As part of collecting all the tools developed under the four CINCH projects on a single site, a new wiki-site was setup on the Czech server site also hosting the CINCH Hub, CINCH Moodle, etc. The address of the new site is:

https://nucwik.cinch-project.eu/

The start page is harmonized with the design of the CINCH Hub start page, using the same type of clickable boxes to quickly navigate to the main parts. A screen shot of the start page of the new NucWik wiki is provided on the next page.

As can clearly be seen, the major parts of NucWik are sections where teachers (and students if so inclined) can download prepared teaching material for:

- Calculation exercises;
- Laboratory exercises;
- Simulations and virtual reality "games" relevant to nuclear and radiochemistry;
- Instructions and material for remote controlled laboratory experiments;
- Textbooks and compendia.

The site is also prepared for linking relevant lecture recordings and video materials. However, per October 2023 this part of NucWik does not contain any material. As a wiki-site, we expect material to become available according to how much the wiki is actually used. Furthermore, time permitting, we will link videos produced during the CINCH projects in this part of NucWik. This task is not regarded as part of any A-CINCH Deliverable, but would be convenient for the future.

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3 SELECTION OF CONTENT TO TRANSFER AND UPLOADED

A complete review of all the content on the previous NucWik site (hosted by the one.com and described in MEET-CINCH Deliverable 7.3) was performed. We then transferred material that was complete enough to be of general use. In addition, quite a lot of material available from the University of Helsinki was added. Screen shots of the various sections, indicating the content that is available, is provided below.



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4 CONCLUSION AND SUMMARY

NucWik has been developed into a scientifically robust learning resource over the course of CINCH projects. It is a Wiki-based resource for teachers and students of radio- and nuclear chemistry. It is now hosted on a site run by CTU where it is now available to all (<u>https://nucwik.cinch-project.eu/</u>). The content has been checked and is now certified by the A-CINCH project to be of sufficiently high standard to be publicly available. NucWik has the potential to have more material added to it future years to keep it up-to-date with current trends in teaching and learning.