LibreEOL and G-Lorep Training and Coaching event

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AIMS OF THE EVENT

The training and coaching event following the TC coordinators meeting was devoted to the illustration of the consolidated features of both the LibreEOL and the G-Lorep tools. In addition details were given of more recent EChemTest® evolutions focusing on reporting and educational support materials. The present report refers for the consolidated features of EChemTest® to the related existing official sites (https://echemtest.libreeol.org/ and https://glorep.unipg.it/) while dealing in some detail with more recent evolutions.

LibreEOL ACHIEVEMENTS

The most recent advances of LibreEOL are related to the software developments, the consolidation of the Proficiency Certificates, the deployment of the demo Tests, the dissemination initiatives and the possibility of offering EChemTest® to non ECTN members.

LibreEOL developments

The rendering part of the various views on data has been rewritten and we have achieved a terrific increase in performance. Furthermore, to access the system it is now necessary to accept the ECTN Privacy Policy, as shown in Figure 1, to be compliant with GRPR.

Figure 1: Echemtest Login prompt, GDPR compliant.

Proficiency Certificates

The Proficiency Certificates, as agreed during the Training Event, can be delivered only if the exam has been deployed using the EchemTest setting. The definition of Settings has been limited only to Teachers. The Examiners may only access the Settings for defining an Exam session, but cannot modify them.

Demo Tests

The Demo Tests are now available to the students. When the Student login into the system will see the list of available Exam Sessions and, at the End, the submenu *Demo Tests*. Clicking on the

submenu the list of the Demo Tests available in English and in her/his language will be shown. The Demo Tests can be performed as often as you wish, and they will look always the same.

Dissemination initiatives

The Dissemination Initiatives are related mainly to the Chemistry for Everyday Life (CEL), in particular during the EchemTest Workshop, reported separately in the present Newsletter, a contest has been carried out by some participants.

Deploying EChemTest® to non-ECTN members

The possibility of offering EChemTest® to non-ECTN members has been made possible thanks to the adoption of the Prosumer model (the most important example is the attempt to extend its usage to EuChemS) that is commented here in some detail.

A central feature of the model is the mechanism supported by the Chem-Learn portal of the Master-Up Agency assigning Academic Debits/Credits (D/C) to the Test Centres (TC) running the Self Evaluation Sessions (SES)s. This feature is managed by the electronic form given in Figure 2.

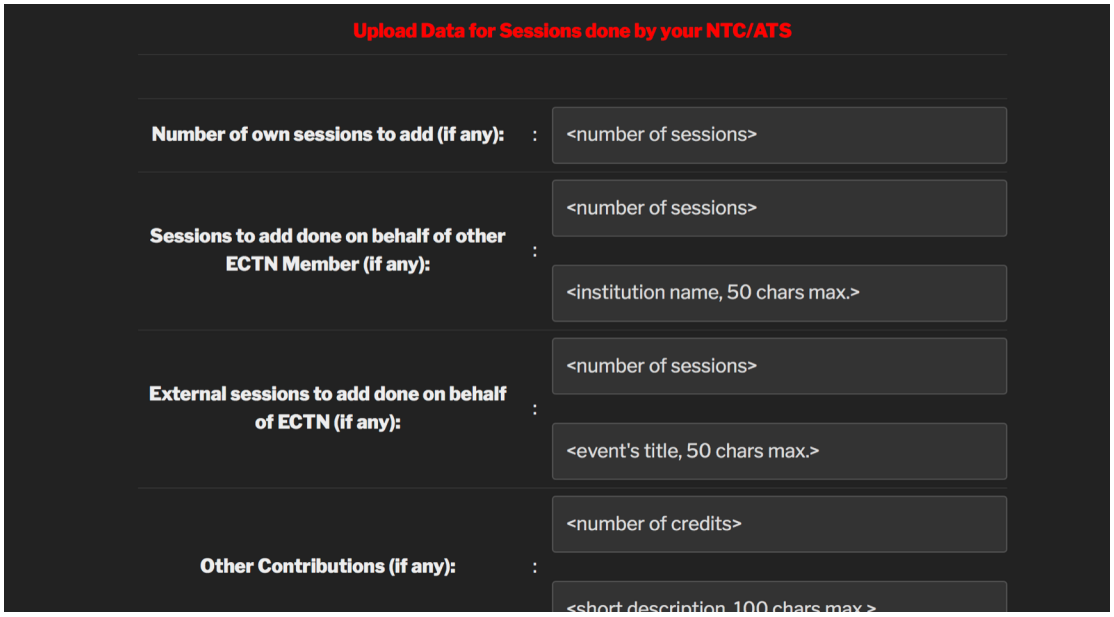

Figure 2: A partial screenshot of the e-form managing the input of D/C data for TC SESs

The analysis of data collected through the online forms leads to Debits when a TC runs SESs for its own institution and to Credits when it runs services (including SESs) for third parties (including ECTN itself, a different TC, an ECTN agency and an ECTN member). Debits in excess to Credits can be offset either by paying the corresponding amount, or by compensating them with net gains (if any), or by spending the corresponding sum for ECTN activities (like traveling to General Assembly, participating to work group meeting, etc.) after specifically planning and agreeing it in advance with ECTN or having included it in an already approved project. Excess Credits can be set aside for offsetting next year Debits (upon agreement with VEC).

G-Lorep ACHIEVEMENTS

The work carried out on G-Lorep and distributed repository activities on chemical knowledge during the year 2018 focused on adding some functions on both user and admin interfaces.

Multimedia LOs

In particular, new features and contents were developed for the use of Multimedia Learning Objects. A set of LOs designed for the "Mechanisms and Dynamics of Chemical Reactions" (MDCR) course were developed. As shown in Figure 3, introductory information on the course, details on

book [1] (see also http://services.chm.unipg.it/ojs/index.php/virtlcomm/article/view/207), examples of the Learning Objects (LO)s produced in collaboration with the Multimedia Centre of the University of Perugia were made accessible at the University of Perugia G-Lorep address.

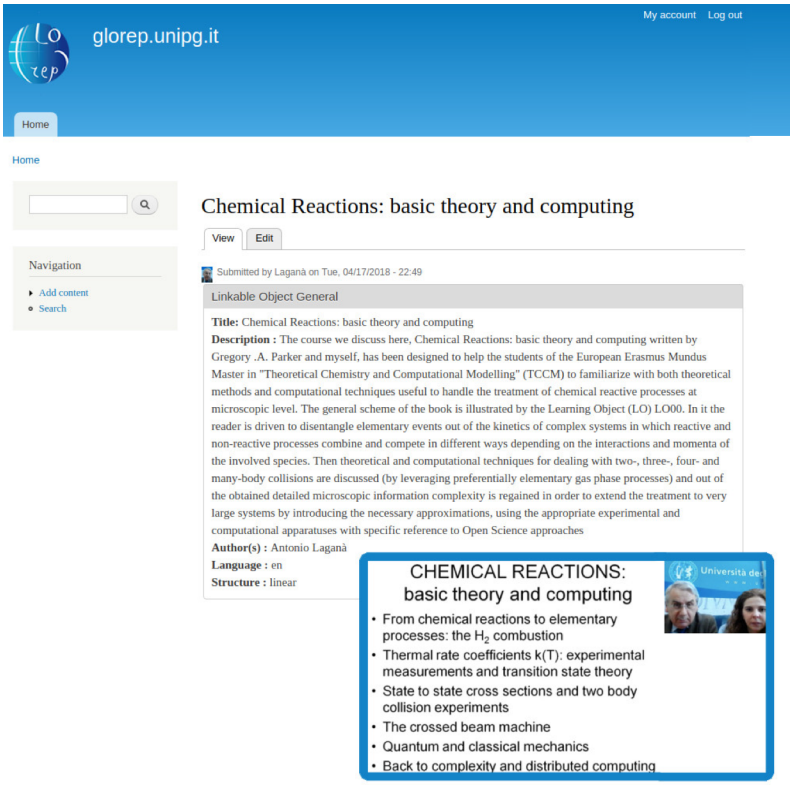

Figura 3: Screenshot of the book introductory page and of the related first slide

In order to facilitate access, the LO video was put into a private youtube location. The files stores given in the Glorep repository are only links to the youtube videos.

Interaction of G-Lorep with Moodle

In order to increase the links between the platforms Moodle and G-Lorep a new plugin Linkglorep was implemented and installed in Moodle to the end of adding a new button to the editor for creating quiz questions. A download count module (supplementary to Drupal core) was also installed in order to hold trace of the downloaded files from the G-Lorep federation. For this reason some view using graphics and tables in which the downloaded files are reported were added to the administrator dashboard.

REFERENCES

1) A. Laganà, G.A. Parker, Chemical Reactions Basic Theory and Computing, Springer International Publishing 2018; ISBN 978-3-319-62355-9