Open Molecular Science Cloud Educational Tools for Chemistry: LibreEOL and G-Lorep Training and Coaching Event

Osvaldo Gervasi, Sergio Tasso, Department of Mathematics and Computer Science, University of Perugia, Via Vanvitelli, 1,I-06123 Perugia, Italy

Antonio Laganà, CNR ISTM, UOS Perugia, via Elce di sotto 8, I-06123 Perugia, Italy, Master-UP srl, Strada Sperandio 15, I-06125 Perugia, Italy

LibreEOL and G-Lorep have been adopted for a successful implementation of e-tests management within EChemTest® and shared Learning Object (LO) development on distributed repositories [1].

The present training event refers for the consolidated features of both products as illustrated in the existing official sites (https://echemtest.libreeol.org/ and https://glorep.unipg.it/) and highlights the advantages of using their cloud implementations as support for an Open Molecular Science approach to chemical Education [2].

Particular emphasis will be given to the extension of the use of the products at world level [3], to the enforcement of the ECTN Privacy Policy of compliance with GDPR, to the issuing of Individual Proficiency Certificates, to the deployment of EChemTest® to non-ECTN members thanks to the adoption of the Prosumer model and to its central feature (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 [4]. Recent developments in proposing multimedia versions of LOs for the Theoretical Chemistry and Computational Modeling Erasmus Mundus Master textbooks will be also discussed [5].

References:

1) http://services.chm.unipg.it/ojs/index.php/virtlcomm/article/view/216
2) http://services.chm.unipg.it/ojs/index.php/virtlcomm/article/view/210
3) http://services.chm.unipg.it/ojs/index.php/virtlcomm/article/view/206
4) http://services.chm.unipg.it/ojs/index.php/virtlcomm/article/view/215
5) A. Laganà, G.A. Parker, Chemical Reactions Basic Theory and Computing, Springer International Publishing 2018; ISBN 978-3-319-62355-9