APPENDIX TO INTERNATIONAL ONLINE INTERNSHIP PROGRAM

"EUROPEAN CHEMISTRY SCHOOL FOR UKRAINIANS"

(May – July 2023)

## Final Program Schedule and Thematic Plan

| # | Lecturer | Topic | Academic hours | |
|---|---|---|---|---|
| | | | Lectures | Individual work |
| 1 | Thomas Carell | A chemical perspective for the origin of life | 2 | 8 |
| 2 | Morten Peter Meldal | Molecular click adventures: a lead from the shoulders of giants | 2 | 8 |
| 3 | Lee Cronin | Foundations of digital chemistry: chemputation | 2 | 8 |
| 4 | Fernando Cossio | Double beta decay experiments for the observation of neutrino antiparticles | 2 | 8 |
| 5 | Jean-Marie Lehn | Chemical locks for biological keys: using molecular recognition to unlock new chemistry | 2 | 8 |
| 6 | Wojciech Macyk | Understanding photocatalysis: how can chemists take control of solar energy | 2 | 8 |
| 7 | Martin Schröder | Metal-Organic Framework materials for substrate capture and catalysis | 2 | 8 |
| 8 | Bert Weckhuysen | Probing catalysts at work across different length and time scales with spectroscopy and microscopy | 2 | 8 |
| 9 | Jia Min Chin | Exploring chemistry at interfaces: a curiosity driven journey into material science | 2 | 8 |
| 10 | Eugenio Coronado | Molecular approach to 2D materials | 2 | 8 |
| 11 | Pavel Jungwirth | Electrons in polar solvents: birch reduction, blue electrolytes, and golden metals | 2 | 8 |
| 12 | Loredana Protesescu | A story from conventional quantum dots to metal halide perovskites nanocrystals | 2 | 8 |

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| 13 | Anne-Marie Caminade | Overview of properties of phosphorous dendrimers | 2 | 8 |
| 14 | Silvia Bordiga | Spotlight on zeolites and MOFs as catalysts: similarities and differences; strengths and weaknesses | 2 | 8 |
| 15 | Evelyn Ploetz | Multi-modal imaging for probing molecular transport processes | 2 | 8 |
| 16 | Maciej Kubicki | Experimental charge density studies: from organics and metal complexes to macromolecules: is it worth the toil? | 2 | 8 |
| 17 | Teofil Jesionowski | Bioinspired Hybrid Materials: design and new directions of application | 2 | 8 |
| 18 | Christian Serre | Functional Metal-Organic Frameworks | 2 | 8 |
| **TOTAL** | | | **36** | **144** |

Total volume – **180 academic hours**, including:

Lectures **– 36**;

Individual work **– 144**.

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