# INTERNATIONAL UNION OF CRYSTALLOGRAPHY

#### Sub-committee on the Union Calendar Request for IUCr Sponsorship and Financial Support

Please return this form to Professor W. Depmeier (Institut für Geowissenschaften der Universität Kiel, Mineralogie/Kristallographie, Ludewig-Meyn-Str. 10, D-24098 Kiel, Germany) via e-mail: wd@min.uni-kiel.de.

Applications must be submitted at least nine months in advance of the date of the meeting and will be considered three times a year at the end of February, June and October. Applications for sponsorship should be timed accordingly. Support from at least one IUCr Commission is required for all international meetings except for the meetings of Regional Associates and the IUCr General Assemblies. National meetings are only supported if held in a developing country. Funds for general purposes are only granted in exceptional cases and are generally limited to meetings held in regions where crystallography should be developed or revitalized. The purpose of funds for general purposes should be clearly specified and justified.

The following questions are asked in order to assist the Sub-committee in determining whether the meeting is appropriate, in subject, form and timing, with respect to other related meetings, to warrant the sponsorship of the International Union of Crystallography. Recommendations for sponsorship and the level of financial support are submitted by the Sub-committee to the Executive Committee for decision. Please answer all of the questions below as fully as possible.

**Please note** that if financial support is approved, a written report on the use of the funds must be submitted to the Executive Secretary not more than six months after the meeting. This report will play an important role in decisions regarding the funding of future meetings in the same series or organized by the same people.

### Meeting for which funding is requested

| Title:    | To.Sca.Lake 3.0: Total Scattering for Nanotechnology on the Como Lake               |
|-----------|---|
| Dates:    | May 27 <sup>th</sup> – May 31 <sup>st</sup> , 2019                                  |
| Location: | Villa del Grumello, Como, Italy.  |
| Subject:  | International School on X-rays and Light Scattering Techniques(PDF, DSE, SAXS, DLS) |
|           |   |

Web site address of meeting (if available): to be set up within the **toscalab.uninsubria.it** webpages Specify title, date and location of all planned satellite meetings (satellite meetings may apply for sponsorship and financial support separately from the main meeting)

[If the application includes satellite meetings, an additional form for each satellite meeting containing specific information for the satellite should be attached to the main application form]

If belonging to a series, indicate previous meeting. If not belonging to a series, indicate the last meeting that to your knowledge had a similar scope.

Belongs to a series?: X yes no (third edition)

If yes, was it supported by the IUCr?: X yes □ no (if yes, amount received: 2730 €) Previous Meeting: To.Sca.Lake 2.0 Date: May 29<sup>th</sup>- June 2<sup>nd</sup> 2017 Location: Villa del Grumello, Como, Italy Web site address (if available): http://toscalab.uninsubria.it/index.php/news

#### Contact person #1

Name:Antonietta GuagliardiE-mail:antonella.guagliardi@ic.cnr.it

#### Contact person # 2

| Name:   | Norberto Masciocchi               |
|---------|-----------------------------------|
| E-mail: | norberto.masciocchi@uninsubria.it |

#### How would you classify this meeting?

annual meeting of one of the Regional Associates (ACA, AsCA, ECA)

international meeting *organized* by an IUCr Commission

meeting or workshop in a region in which crystallography should be developed/revitalized national international

travel support under the Visiting Professorship Scheme also requested

## X international meeting or workshop in a well-developed country with strong support from an IUCr Commission and/or a strong teaching component

smaller international meeting or school on a topic of particular interest for the IUCr

### Amount of financial support requested from the IUCr

for travel and subsistence of young scientists\*:

for travel support under the Visiting Professorship Schemet: US\$ for general purposes++: US\$ please specifiy

\*required for most meetings – an exception would be the unusual case when solely Visiting

Professorship support is required

for developing countries only - FORM VP1 must be completed (see

http://www.iucr.org/iucr/sponsorship/vp.html)

tt purpose of funds for general purposes should be specified and justified (generally limited to regions where crystallography is to be developed or revitalized).

US\$ 3000

requested

#### 1. Is the meeting being organized by an IUCr Commission?

(if so, attach a letter to that effect from the Chair of the Commission) ves | no

- 2. For international meetings not organized directly by an IUCr Commission, a copy of this application and a request for a letter of support must be sent to the Chair of at least one IUCr Commission. A letter or email message of support from at least one IUCr Commission must then be received in due time at the same address above.
  - Which Commission(s) has(have) been contacted in this way? requested
  - a) Powder Diffraction, Chair: Dave Billing
  - b) Small Angle Scattering, Chair: U-Ser Jeng
  - c) Crystallographic Computing, Chair: Martin Lutz requested required for international meetings (see http://www.iucr.org/iucr/commissions for list)

#### 3. List of topics to be covered:

The Quest for New Characterization Methods for Nano-Science Basics of Debye Scattering Equation and Pair Distribution Function Multiple Origins Non-Bragg and Diffuse Scattering (Disorder, Faults, TDS, etc.) X-ray Synchrotron Radiation, Beamlines and Data Collection Protocols Computational Aspects for DSE, PDF and SAXS Analyses Examples of Recent Applications of the DSE, PDF and SAXS Methods Demo Sessions and Hands-on Tutorials on the Debussy and PDF Suites Light Scattering Techniques in Static and Dynamic Modes Short Presentations by Young Attendees and Round Table Discussions

#### **Composition of the International Programme Committee** 4.

Norberto Masciocchi (University of Insubria); Antonietta Guagliardi (Institute of Crystallography -Italian CNR)

Other arrangements to guarantee international character of the meeting if the Programme Committee is not International

Speakers are from Europe and US; Attendees from 20 different Countries, including African and North & South American Participants, were present in To.Sca.Lake 2017; the Organizers have a rich record of Scientific, Teaching and Institutional Activities within IUCr, EPDIC and ICDD.

#### Names of the invited lecturers (include at least a provisional list). 5.

S.J.L. Billinge (University of Columbia, New York); F. Bertolotti (University of Aarhus); M. Bodnarchuk (EMPA, Dübendorf) H.B. Bürgi (University of Bern); A. Cervellino (Paul Scherrer Institute, Villigen); F. Ferri (University of Insubria) A. Guagliardi (IC-CNR); M.V. Kovalenko (ETH Zurich); N. Masciocchi (University of Insubria) J.S. Pedersen (University of Aarhus) (All confirmed, gender distribution in color code)

(A provisional programme of the meeting should also be included):

### [The exact sequence will be reconsidered on the basis of the prospected length of the different activities]

Monday May 27th: Afternoon: Registration + Invited Lecture # 1 (Kovalenko: A Broad Perspective to Inorganic Nanomaterials) + Invited Lecture # 2 (Bodnarchuk: Advanced Nanomaterials for Energetic Applications); Invited Lecture # 3 (Bürgi: Non-Bragg Scattering);

- Tuesday May 28<sup>th</sup>: Morning: Invited Lecture # 4 (Masciocchi: The Powder Diffraction Method and Beyond) + Invited Lecture # 5 (Cervellino: The Debye Scattering Equation Approach) + Invited Lecture # 6 (Guagliardi: Implementing the DSE in the Debussy Suite);
- Tuesday May 28<sup>th</sup>: Afternoon: Demo and Hand-on Sessions on Debussy, Part 1 (Guagliardi and Bertolotti) + Invited Lecture # 7 (Billinge: The Pair Distribution Function Approach);
- Wednesday May 29<sup>st</sup>. Morning: Invited Lecture # 8 (Guagliardi: Recent Applications of the DSE Method) + Invited Lecture # 9 (Billinge: Recent Application of the PDF Method)
- Wednesday May 29<sup>st</sup>: Afternoon: Demo and Hand-on Sessions on Debussy, Part 2 (Guagliardi and Bertolotti) + Demo and Hand-on Sessions on PDF methods Part 1 (Billinge);
- Thursday May 30<sup>th</sup>. Morning: Invited Lecture # 10 (Pedersen: SAXS Theory and Recent Applications) + + Demo and Hand-on Sessions, Part 2 (Billinge);
- Thursday May 30<sup>th</sup>. Afternoon: Demo and Hand-on Sessions on SAXS (Pedersen) + Scientific Presentations of Young Attendees (Part 1);
- Friday May 31<sup>st</sup>. Morning: Invited Lecture #11 (Ferri: Static and Dynamic Light Scattering Methods) + Scientific Presentations of Young Attendees (Part 2); Round Table and Question Time.

If travel support is requested under the Visiting Professorship Scheme, give the names of the lecturers for whom this support is foreseen and attach their CVs.

 Names of the local organizers: Logistics: Antonietta Guagliardi and Norberto Masciocchi; Demos and Young Participants' Day: Federica Bertolotti and Daniele Moscheni;

#### 7. Expected number of participants

|                                 | total: | 60 | young scientists: 45 |
|---------------------------------|--------|----|----------------------|
| distributed between:            |        |    |                      |
| local (site of the meeting):    | total: | 10 | young scientists: 5  |
| local (country of the meeting): | total: | 15 | young scientists: 10 |
| non-local:                      | total: | 35 | young scientists: 30 |

If belonging to a series of meetings, indicate the number of participants in the previous meeting: total: 80 young scientists: 60

#### 8. Budget

| Total provisional budget for the meeting:       | 32000 |
|---|-------|
| Free Accommodation for 20 attendees             | 4000  |
| Travel Support to Foreign and Distant Attendees | 3000  |
| Travel Expenses and Accommodation for Teachers  | 4000  |
| Renting of the Villa del Grumello               | 8000  |
| Fondazione Volta Secretariat + Overheads        | 3000  |
| Catering  | 10000 |
| Origin of income:                               | 32000 |
| Lake Como School                                | 10000 |
| Commercial Sponsors                             | 3500  |
| University of Insubria, To.Sca.Lab and CNR      | 3000  |
| IUCr  | 2800  |
| ICDD  | 2000  |
| ECA   | 500   |
| AIC   | 1200  |
| Registrations                                   | 9000  |

Conference fee:

200€

Services included in the fee:

Attendance to the School, Conference Booklet (Pdf); Welcome Party, Lunches/Coffee Breaks

- **10. Deadlines** Registration application: February 2019 Paper submission:
- 11. Is publication of proceedings intended? Uses X no Editor: Details:
- 12. Any additional information:
- 13. Is the proposal supported by the National Committee for Crystallography of the country?
  X yes no

(if yes, attach support letter) requested

- 14. Do the authorities of the country in which the meeting is to take place guarantee free entrance of bona fide scientists from all countries?
  X ves □ no
- 15. Are the meeting organizers willing to circulate information about the IUCr amongst the participants (for example, by displaying posters, including leaflets in delegates bags and including a colour advertisement in the programme book, if produced)?

16. Is the meeting organization willing to offer the IUCr a free booth to display IUCr publications and offer free registration to the IUCr Promotions Officer (or alternate) should she or he attend?

X yes no no lf not, give reasons

#### We (the applicants) agree to include the following statement in our conference circulars:

IUCr Scientific Freedom Policy Statement. The Organizing Committee of To.Sca.Lake 2019shall observe the basic policy of nondiscrimination and affirms the rights of scientists throughout the world to adhere or to associate with international scientific activity without regard to such factors as ethnic origin, religion, citizenship, language, political stance, gender, sex or age, in accordance with the Statues of the International Council for Science. At this meeting no barriers will exist which would prevent the participation of bona fide scientists.

Place: Como, Italy Date: July, 1<sup>st</sup> 2018 Signature: Name:

LuczSor

Antonietta Guagliardi

Place: Como, Italy Date: July, 1<sup>sr</sup> 2018 Signature: Name:

Norther to Ulescipe

Norberto Masciocchi