

IUPAC Project Progress Report

Period: July 2005 – February 2006

Project number: #2004-021-1-300

Project Title: Reference Methods, Standards and Applications of Photoluminescence

Task Group Leader: Fred Brouwer / Enrique San Román

Starting date: August 2004

Report:

1. Projected completion date (documents ready for external review):

February 2007

2. Have the project objectives been modified during the last 6 months?

NO

3. Please list the task group members involved in the work during the last 6 months:

All task group members participated with different degrees of involvement: Ulises Acuña, Marcel Ameloot, Noël Boens, Cornelia Bohne, Fred Brouwer, Paul DeRose, Jörg Enderlein, Nikolaus Ernsting, Thomas Gustavsson, Niels Harrit, Johan Hofkens, Alex Knight, Helge Lemmetyinen, Hiroshi Miyasaka, Ute Resch-Genger, Alan G. Ryder, Enrique San Román, Trevor Smith, Mark Thompson, Bernard Valeur, Hiroyuki Yoshikawa.

4. Difficulties encountered (or concerns):

No special difficulty was found. Of course, it is hard to coordinate the activities of 21 people within the task group. A matter of discussion was the availability of non-commercial data on luminescence standards and the appropriateness of including recommendations about commercial products (There are efforts being done currently in the field of fluorescence standards by National Metrological Institutions in combination with commercial enterprises, based probably on restricted information about the nature of the chemical compounds used.). We decided during the last Task Group meeting in September 2005 that any recommendation to be included in the documents which will emerge from the project should be based on previously published material on grounds of open experimental data.

5. Please list the to-date results (outputs) of the project:

Preliminary drafts on the project subtasks are currently being exchanged within the Task Group, which will be discussed on the occasion of the XXI IUPAC Symposium on Photochemistry to be held in Kyoto (April 2006). After conciliation of the different points of view preliminary documents will be open to general discussion.

6. Please list the dissemination events (viz. articles, CD, conference presentations; etc.);

(i) already accomplished; (ii) planned

During the two previous meetings of the Task Group (at the IUPAC Symposium on Photochemistry in Granada, July 2004 (before official approval), and at the 9th Conference on Methods and Applications of Fluorescence in Lisbon, September 2005, the project was brought to

the attention of the photochemical community . This criterium will be followed also in Kyoto. Papers will be issued in PAC and, probably, Journal of Fluorescence.

7. If your project is within 6 months of completion, how do you plan to utilise any remaining budget for this project?

It is not the case. Anyway, funds remaining after the Kyoto meeting will be used for a last meeting of subtask leaders at the end of 2006 and for dissemination.

8. Work on this project may have identified new problems, issues, challenges, emerging topics, opportunities for related projects, etc. Please indicate these here so that the Division can follow up on them.

The availability of fluorescence standards and, especially, their confidence is a challenging topic.