

INDC International Nuclear Data Committee

19th Meeting of the IFRC Subcommittee on Atomic and Molecular Data for Fusion

Summary Report of an IAEA Technical Meeting

IAEA Headquarters, Vienna, Austria

28-29 April 2014

Report prepared by
Bastiaan J. Braams
IAEA Nuclear Data Section

July 2014

Selected INDC documents may be downloaded in electronic form from

[*http://www-ndc.iaea.org/publications*](http://www-ndc.iaea.org/publications)

or sent as an e-mail attachment.

Requests for hardcopy or e-mail transmittal should be directed to

[*NDS.Contact-Point@iaea.org*](mailto:NDS.Contact-Point@iaea.org)

or to:

Nuclear Data Section
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 Vienna
Austria

Printed by the IAEA in Austria

July 2014

INDC(NDS)- 0667

Distr. LP,NE,SK

19th Meeting of the IFRC Subcommittee on Atomic and Molecular Data for Fusion

IAEA Headquarters

Vienna, Austria

28-29 April 2014

Prepared by

Bastiaan J. Braams

IAEA Nuclear Data Section

July 2014

Table of Contents

<i>Executive Summary and Recommendations</i>	7
1. Introduction	8
2. Meeting Proceedings	8
Opening	8
B. J. Braams: General Report on Unit Activities	8
H.-K. Chung: Review of Data Centre Network, Databases and Data Evaluation	12
B. J. Braams: Review of Coordinated Research Projects	16
H.-K. Chung: Review of Code Centre Network and Code Comparison Workshops.....	21
B. J. Braams: Review of Other Activities	23
Discussion on Priorities for Coordinated Research Projects	25
Discussion on Other Meetings and Activities	26
3. Recommendations and Conclusions	26
Appendix 1: Mission and General Activities of the Atomic and Molecular Data Unit	28
Nature of our work	28
Relevance.....	28
Areas of emphasis	29
Active and planned CRPs	29
Selected recent and planned meetings	29
Appendix 2: Activities of the Unit, 2012-2013	31
Overview	31
Numeric databases	31
Bibliographic database	31
Knowledge base Wiki.....	32
Coordinated Research Projects	32
Data and Code Centre Networks and other meetings.....	33
Development of XSAMS	34
ICTP workshop	34
Meetings organized by us in 2012-2013	34
Meetings planned for 2014.....	35
Meetings attended and other duty travel in 2012-2013.....	35
Appendix 3: Recent Conference Activity on Plasma Interaction With Steel Surfaces	37
14th International Conference on Plasma Facing Materials and Components for Fusion Applications (PFMC 2013), Jülich, 13-17 May 2013.....	37
16th International Conference on Fusion Reactor Materials (ICFRM 2013), Beijing, 20-26 Oct 2013	37
21st International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 2014)	38
12th International Workshop on Hydrogen Isotopes in Fusion Reactor Materials, Toyama, 2-6 June 2014.....	39
Appendix 4: Recent Conference Activity on Plasma Interaction With Liquid Surfaces	40
14th International Conference on Plasma Facing Materials and Components for Fusion Applications (PFMC 2013), Jülich, 13-17 May 2013.....	40
16th International Conference on Fusion Reactor Materials (ICFRM 2013), Beijing, 20-26 Oct 2013	40
21st International Conference on Plasma Surface Interactions in Controlled Fusion Devices (PSI 2014)	40
12th International Workshop on Hydrogen Isotopes in Fusion Reactor Materials, Toyama, 2-6 June 2014.....	41
Appendix 5: List of Participants of the 19th IFRC Subcommittee meeting	42
Appendix 6: Meeting Agenda	43
Monday 28 April 2014.....	43
Tuesday 29 April 2014	43

Appendix 6: Meeting Agenda

Monday 28 April 2014

09:30 – 09:45: Welcome, introduction of participants, election of a Chair. R. A. Forrest and B. J. Braams.

09:45 - 10:45: General report on activities. B. J. Braams.

11:15 - 12:30: Review of Data Centre Network, databases and data evaluation; discussion. H.-K. Chung.

12:30 – 14:00: ***Lunch***

14:00 - 15:30: Review of Coordinated Research Projects; discussion. B. J. Braams.

16:00 - 17:15: Code Centre Network and Code Comparison Workshops; discussion. H.-K. Chung.

19:00 - ...: ***Social dinner***

Tuesday 29 April 2014

09:00 - 10:30: Other activities (XSAMS, ICTP workshop, possible large A+M+PMI meeting); discussion. B. J. Braams.

11:00 - 12:30: Broad review and discussion. Activities on atomic, molecular and plasma-material interaction data activities worldwide. What is most needed? All.

12:30 – 14:00: ***Lunch***

14:00 - 15:30: Discussion, recommendations and priorities for Unit activities. All.

16:00 - 17:00: Any other business, meeting conclusions. All.

17:00: ***Close of meeting***

Nuclear Data Section
International Atomic Energy Agency
Vienna International Centre, P.O. box 100
A-1400 Vienna, Austria

E-mail: ndsc.contact-point@iaea.org
Fax: (43-1) 26007
Telephone: (43-1) 2600 21725
Web: <http://www-nds.iaea.org>