

THE 16<sup>TH</sup> ADAS WORKSHOP  
6-8 October 2011  
Auburn University

AGENDA

**Wed. 5 Oct.**

19.30 Reception at Hotel

**Thu 6. Oct.**

08.50-09.00 Welcome from Stuart Loch  
Adjustments and ratification of the agenda

*1st session:*  
09.00-10.40 Developments in fundamental data  
Chairman: M Witthoeft

F Robicheaux (20 min) Developments in low temperature dielectronic recombination  
C Ballance (20 min) New developments in the R-matrix code suite  
M Pindzola (20 min) Ionization from excited state  
J Munoz (20 min) H and He modelling with improved excited state ionization

*Discussion:*

10.40 Coffee

*2nd session:*  
11.10-12.10 Ionization state  
Chairman: M Pindzola

R Guirlet (20 mins) Consequences of different atomic data sets for nickel  
Y Ralchenko (20 mins) Ionization state as comparator between data sources  
A Giunta (20 mins) GCR modelling of silicon and beyond

*Discussion:*

12.30 Lunch

*3rd session:*  
14.00-15.30 High energy beam emission and charge exchange  
Chairman: M O'Mullane

O Marchuk (20 min) Progress in the description of Motional Stark effect spectra in fusion plasmas  
I Bespamyatnov (20 min) Core-CXRS system on Alcator C-Mod and DNB simulation by ALCBEAM code  
Yong Wu (15min) N6+ + H and O6+ + H charge exchange  
J Nolte (15min) C5+ + H, O7+ + H charge exchange  
Jinseok Ko (20 min) The effect of ADAS atomic physics on the magnetic field measurement in low-field motional Stark effect diagnostics  
M Gorelenkova (20 min) Cross section developments in TRANSP

*Discussion:*

15.30 Coffee

*4th session:* Summary of new data  
16:00-17.00 Chairman: A Giunta

S Loch (10 mins)	Summary of this year's new fundamental data
A Foster (20 min)	Update on revised atomic data for ATOMDB
M O'Mullane (20 min)	New data in ADAS v3.1

*Discussion:*

17.15-18.15 ADAS Steering Committee Meeting

18.30 Evening meal – please sign up

### **Fri. 7 Oct.**

*1st session:* Reports from the laboratories  
9:00-10.15 Chairman: A Foster

S Knowlton (20 min)	Recent result from the Auburn CTH experiment
D Hillis (20 mins)	Report on fusion developments at ORNL
A Dnestrovskij (20 min)	Atomic data activities at TRINITI

*Discussion*

10.15 Coffee

*2nd session:* Assessing and quantifying uncertainties in atomic data  
10.30-12.30 Chairman: B Braams

A Giunta (20 min)	Anomalous OIV line ratios in the solar spectrum
M Witthoeft (20 min)	Propagation of uncertainty through population models
C Ballance (20 min)	Quantifying uncertainty in R-matrix collision calculations
M O'Mullane (10 min)	Adding error estimates to atomic databases

*Discussion:*

12.30 Lunch

*3rd session* Atomic data provision and collaborative working  
14.00 – 15.45 Chairman: R Guirlet

B Braams (20 min)	Databases and coordinated research projects in the IAEA Atomic and Molecular Data Unit
S Loch (20 min)	The future of the CFADC web resources
Mi-Young Song (20 min)	Atomic data scrutiny at NFRI
R Antidormi (20 min)	The role of the European framework programme in fostering collaboration
M O'Mullane (20 min)	Where next for OPEN-ADAS?

*Discussion:*

15.45 Coffee

*4th session:*  
16.00-17.00 ADAS summary and status report  
Chairman: R Smith

S Loch Outline of future plans for fundamental data at Auburn  
M O'Mullane ADAS operation, visits, current release, corrections &  
recommendations

*General Discussion to include:* grumbles, complaints and wish lists both reasonable and unreasonable, forward plans for 2012, joint work, publications and anything else!

18.30 Evening meal – no formal arrangement

**Sat. 8 Oct. (am)** Demonstration of ADAS and break-out sessions.

Martin O'Mullane / Stuart Loch  
17 September 2011