

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.**

08.45-09.00 Welcome from Charles Savrda, COSAM Dean  
Introduction to workshop from Stuart Loch  
Adjustments and ratification of the agenda

*1st session:* Developments in fundamental data  
09.00-10.40 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 states
J Munoz (20 min)	Time dependent beam modeling with H and He at DIII-D

*Discussion:*

10.40 Coffee

*2nd session:* Population models and ionization state  
11.10-12.20 Chairman: M Pindzola

Y Ralchenko (20 mins)	Collisional-radiative modeling of EBIT plasmas
Teck-Ghee Lee (15 mins)	Atomic data for light species population modeling
R Guirlet (15 mins)	Consequences of different atomic data sets for nickel
A Giunta (20 mins)	GCR modelling of silicon and beyond

*Discussion:*

12.30 Lunch

*3rd session:* High energy beam emission and charge exchange  
14.00-15.30 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  
R Hutton (20 mins) Developments in EBIT studies in China  
A Dnestrovskij (20 min) Atomic data activities

*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  
M O'Mullane Outline of future plans for fundamental data at Auburn  
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  
30 September 2011