

Monte Carlo Radiation Transfer Summer School

St Andrews, 18-24 August 2013

Contact: Kenny Wood, kw25@st-andrews.ac.uk

Schedule as of 15 August 2013

Accommodation – Agnes Blackadder Hall

Lectures & Seminars – Gateway Building

Sunday 18 August

Participants arrive during the day.

19.00 Registration, welcome drinks and hot buffet at Gateway Building

Monday 19 August

7.30-8.30 Breakfast

9.00-9.15 Overview by Kenny of schedule and goals of school

9.15-10.30 Kenny's MC lectures

10.30-11.00 Coffee break

11.00-11.30 Kenny's lecture on using his scattered light code

11.30-13.00 Jon's lectures on radiative equilibrium (Bjorkman & Wood, Lucy techniques, pathlength formulae, etc)

13.00-14.00 Lunch

14.00-14.45 More from Jon

15.00-17.30 Practical exercise and open session with lecturers on using codes

15.30 Coffee served

19.00 Whisky tasting and hot buffet at Parliament Hall

Tuesday 20 August

7.30-8.30 Breakfast

9.00-9.15 Any questions or issues?

9.15-10.30 Tom's lectures on MC and HYPERION (optimizations, PAH effects, gridding, optically thick diffusion, forced first scattering, modified random walks, coupling to MC)

10.30-11.00 Coffee Break

11.30-13.00 Tim Harries lecture on adaptive mesh, line scattering, time dependent MC, using TORUS

13.00-14.00 Lunch

14.00-16.30 Open session with Jon, Tom and Tim on using HYPERION & TORUS (Kenny also there for his scattered light code); general questions and interaction with other lecturers about Monte Carlo.

15.30 Coffee served

16.30-17.30 Guest lecture by Louise Campbell on MCRT in photodynamic therapy for skin cancer treatment

19.00 Dinner at Lower College Hall

Wednesday 21 August

7.30-8.30 Breakfast

9.00-9.15 Any questions or issues?

9.15-10.30 Kenny's photoionization lecture

10.30-11.00 Coffee break

11.00-15.00 Kenny's photoionization lecture followed by open session with Jon, Tim, Tom,

Kenny for general questions and using codes

13.00-14.00 Lunch

15.00-16.00 Michiel's lecture on line transfer and NLTE excitation

16.00 Coffee served

16.30-17.30 Michiel's lecture on LIME

19.00 Dinner at Maisha (Indian), College Street, St Andrews

Thursday 22 August

7.30-8.30 Breakfast

9.00-9.15 Any questions or issues?

9.15-10.30 Barbara's photoionization lectures

10.30-11.00 Coffee break

11.00-15.00 Barbara's lecture on using MOCASSIN, followed by open session with Michiel and Barbara on using LIME and MOCASSIN (Michiel and Barbara leaving at 3pm)

13.00-14.00 Lunch

14.00-17.00 Open session with remaining lecturers

15.30 Coffee served

19.00 University dinner at Lower College Hall

Friday 23 August

Depart St Andrews