To: All Candidates for Preliminary Examination in Materials Science and Economics and Management 2017
From: Professor Susie Speller, Chair of Moderators, Prelims 2017
Subject: Prelims Examination Trinity term 2017
Date: Wednesday, 01 March 2017
cc: Director of Studies, Tutorial Fellows

Information on the Prelims Examination Trinity term 2017

I am writing with information about the arrangements for your forthcoming examination and to provide you with a copy of the Examination Conventions for 2017.

The Prelims Moderators in Trinity 2017 are: Prof. Harish Bhaskaran, Prof. Kyriakos Porfyrikis, Prof. Susie Speller (Chair) and Prof. Andrew Watt. Candidates are reminded that in order to preserve the independence of the moderators, you are not allowed to make contact directly about matters relating to the content of the exams or the marking of papers. Any communication must be via your college, who will, if the matter is deemed of importance, contact the Proctors. The Proctors in turn communicate with the Chair of Moderators. If you have any queries about the Examinations or anything related to the Examinations, for example, illness or personal issues, please don’t hesitate to seek further advice from your College tutor, or one of the Department’s academic support staff as listed in your course handbook.

Examination conventions

The Examination Conventions for the Prelims Examination are enclosed.

Format of the examination papers

Past papers can be found on WebLearn at https://weblearn.ox.ac.uk/portal/hierarchy/oxam (or go to the University’s homepage, click on “Oxford Students” and select “OXAM” from the drop down list of Systems and Services).

There are four written papers, each 3 hours in length:
- Materials Science 1 - Structure of Materials
- Materials Science 2 - Properties of Materials
- Materials Science 3 - Transforming Materials
- Mathematics for Materials Science

The Materials Science papers 1 - 3 each comprise eight questions from which candidates must attempt five. Each question is worth 20 marks, so the total marks available on each paper are 100.
The examiners would like to remind you that there is no strict rule about how many questions are set on each lecture course in the Preliminary examination papers. As a result, (i) you must not assume that a question will be set on every lecture course and (ii) some questions may require knowledge from more than one lecture course.

The rubric on each paper indicates a prescribed number of answers required (e.g. "candidates are required to submit answers to no more than (x) questions"). You will be asked to indicate on a cover sheet which questions, up to the prescribed number, you are submitting for marking. If the cover slip is not completed then the examiners will mark the first (x) questions in numerical order by question number. The examiners will NOT mark questions in excess of the prescribed number. If fewer questions than the prescribed number are attempted:

i) each missing attempt will be assigned a mark of zero,
   ii) for those questions that are attempted no marks beyond the maximum per question indicated on the paper will be awarded and
   iii) the mark for the paper will still be calculated out of 100.

NOTE: Each question is to be started in a new answer booklet.

As in previous years, questions are, where possible, likely to have some mathematical or analytical content.

The Prelims paper on Mathematics for Materials Science consists of two sections, candidates are required to answer all questions in Part A and 4 from Part B. The total marks available for this paper are 180; the mark achieved then being scaled by a factor of 0.555' such that the paper contributes a maximum of 100 marks to the Preliminary Examination.

An examiner acquainted with the particulars of the relevant question paper will be present for half an hour at the start of each written examination to address any questions concerning the paper.

The fifth paper consists of continuous assessment of the Materials practicals and the Crystallography coursework taken throughout the year. Your attention is drawn to the requirement for coursework to be completed to a satisfactory level, as defined in your course handbook. For crystallography coursework to be judged as satisfactory candidates must have achieved at least 40% overall on this crystallography coursework, and have submitted a report on each of the crystallography classes. For practical coursework to be judged as satisfactory candidates must have achieved at least 40% overall on this practical coursework and have submitted a report for marking on each practical listed in the course handbook.

For this reason, the completed practical reports and lab books must be handed in to the examiners via the Academic Administrative Assistant (Suzie Engela) before 10.00AM ON FRIDAY, 6TH WEEK OF TRINITY TERM. It is your responsibility to ensure that all your practicals are marked and handed in on time. Coursework cannot normally be retaken and failure of coursework will normally constitute failure of the Preliminary Examination.

Timetable of the examination papers

It is hoped that the examination papers will be in week 7 of Trinity term. However, THIS CANNOT BE CONFIRMED UNTIL THE EXAMINATION SCHOOLS PUBLISH THE OFFICIAL TIMETABLE, AND MAY BE SUBJECT TO CHANGE.
SMP Tables
SMP Advanced Tables, 3rd ed. 1979 will be available on each desk for all four written papers.

Use of calculators
The only types of calculators that may be used in Materials Science examinations are from the following series:

- CASIO fx-83
- CASIO fx-85
- SHARP EL-531

Candidates are required to clear any user-entered data or programmes from memories immediately before the exam begins. The examiners may inspect any calculator during the course of an exam.