Present:  Professor Rowan Truss (Chair), Professor Ross McAree (Research Chair), Dr Saiied Aminossadati (PGC), Ms Elise Fahy, Mr Munirud Dean, Mr Mitchell Dunn, Mr Pisan Kulkaew, Mr Sreekanth Raghunath, Mr Tristan Shelley, Mr Ali Soofastaei, Ms Brianne Mackinnon (PGAO).

1. Business arising from the minutes

   a. Supervisor training and accreditation
   This action item will be included in the next Research Committee meeting in October 2014.

   b. Networking workshop
   The Graduate School held a session, “Capitalising on your PhD brand” on 29 July 2014 with the aim to debunk the myths of networking and provide pragmatic strategies to build your network and your brand. This session was part of the revamped career skills training program that has been rolled out in 2014:
   - Career Strategy Workshop, 14 May 2014 (Dr Edwin Trevor Roberts)
   - Career Strategy Networking Breakfast, 19 June 2014 (with industry, government, NGOs)
   - Inter-cultural Communication for Business, 8 July 2014 (Dr Maryam Jamarani)
   - Commercialisation Workshop, 23 July 2014
   - Commercialisation Networking Breakfast, 12 August 2014 (with industry, government)
   Upcoming:
   - Research to Policy seminar, early October 2014
   - Research to Policy Networking Breakfast, 29 October 2014

2. Occupational Health & Safety

   The 3 June 2014 OH&S committee minutes were noted in attachment. The School’s RHD OH&S representative, Mr Munirud Dean gave an update from the OH&S Committee. Students were reminded that it is important to report ‘near-miss’ OH&S incidents.

3. Report from Postgraduate Coordinator (Professor Ross McAree)

   Professor Rowan Truss returned from SSP and resumed his position as the Postgraduate Coordinator in the School. Dr Saiied Aminossadati (Amin) is the Deputy Postgraduate Coordinator.

   Professor Ross McAree was thanked for holding this position in the interim period and his review of milestone procedures. Professor Ross McAree will continue to be a member on this committee and have input as the Chair of the Research Committee.

   a. 2013 John Simmons Best Thesis Award
   Dr Hongyi Xu was awarded the 2013 John Simmons Best Thesis Award for his thesis titled, ‘Role of Catalysts in the Growth of One-Dimensional III-V Semiconductor Nanowire’ (supervisor by Prof Jin Zou). This prize recognises the best research higher degree thesis completed in the School of Mechanical and Mining Engineering throughout the academic year. Dr Xu’s thesis was selected in terms of the international recognition of the research work, impact of the research and publications or other outputs.

   b. 2013 Dean's Award for Research Higher Degree Excellence
   This award gives formal recognition to outstanding PhD and MPhil graduates who have demonstrated excellence in a research higher degree and who have been commended by advisors and independent examiners for substantial contribution to their field of research.

   The 2013 winners from the School were:
   - Dr Hongyi Xu for his thesis titled, ‘Role of Catalysts in the Growth of One-Dimensional III-V Semiconductor Nanowire’ (supervisor by Prof Jin Zou).
   - Dr Junjun Yin for his thesis titled, ‘Strategies to Improve the Calcium Looping Process for High Temperature CO2 Capture’ (supervisor by Dr Bo Feng).
c. GSITA applications
The Graduate School has recently reviewed the requirements of the GSITA grant to expand support for travel that fits within one or more of the following criteria:

- Enhances the quality of the candidature, thesis and/or associated research output
- Develops students skills for their career post-candidature
- Contributes to stronger research linkages between UQ and a key partner

Using these criteria the Graduate School can provide experiences to students to develop their research and career skills, as well as pursue strategic linkages with overseas partners. The Graduate School website and forms have now been updated, see http://www.uq.edu.au/grad-school/GSITA. The next round of GSITA applications are due to rhdadmin@mechmining.uq.edu.au by Wednesday 3 September.

Students were reminded that in accepting their GSITA scholarship, they agree to notify the Graduate School of any changes to their travel dates or travel plans.

d. 2014 RHD Best Journal Paper Prize
The School of Mechanical and Mining Engineering is now welcoming submissions for the 2014 RHD Best Journal Paper Prize. Journal papers published or accepted in the last 12 months (1 July 2013 – 31 July 2014) can be nominated for this award

Please submit your nomination to rhdadmin@mechmining.uq.edu.au by Friday 29 August:

- Submission form
- Copy of the Journal paper
- Copy of Reviewers comments (if available)

It was noted that journal papers do not need to be published, but must be accepted for publication in the time-frame provided to be eligible for the prize.

4. Report from Chair of Research Committee (Professor Ross McAree)
a. Budget

Postgraduate Research Engineering Student Society (PRESS)
The School contributes $500 per annum towards PRESS. Students commented on their participation and involvement with PRESS activities:

- No students present were members of PRESS
- Students reported that there is no communication from PRESS to all students across the Faculty and there did not appear to be wide representation
- One activity participated in by a student was the PRESS football tournament, however no membership was required.
- A student reported that the atmosphere at a PRESS event they had attended was not open and inclusive
- Students noted that there does not seem to be any PRESS website or mailing list, however there is a PRESS UQ Facebook site that is updated regarding events.

It was agreed that staff would undertake a review of membership and discuss this with other staff across the Faculty. Students were asked to encourage greater engagement with PRESS.

It was suggested that a PRESS representative attend future RHD Induction sessions to encourage new students to get involved and also attend the next RHD SSLC meeting.
RHD Skills workshop

The School has requested a budget of $3000 for 2015 to run RHD skills workshops. The School has previously held Research Process in Engineering (Emeritus Professor Pra Murthy) and Communication in Engineering (Professor Ian Lowe and Dr Patricia Kelly).

Students nominated potential workshop topics for 2015 as follows:

- Attitudes toward work ethics or work/life balance as an RHD student
- Time and stress management
- How to write journal papers

Students also noted that many sessions are run by different divisions across the university (Careers Hub, Student Services or the Graduate School) and that these could be better advertised to RHD students.

b. RHD Recruitment

RHD recruitment activities took place in September. Dr Chris Leonardi coordinated a ‘Research Bites’ event to advertise the School’s research to UQ undergraduate students and encourage their enrolment in a RHD. Prof Jin Zou is in China throughout September to advertise research projects to potential CSC applicants.

5. RHD Final Seminar Program sub-committee

a. RHD Final Seminar Program

The RHD Final Seminar Program continues to run throughout 2014. The current schedule is as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Student Name</th>
<th>Thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>29 August</td>
<td>James Barth</td>
<td>Mixing and Combustion Enhancement in a Mach 12 Shape-Transitioning Scramjet Engine</td>
</tr>
<tr>
<td>5 September</td>
<td>David Petty</td>
<td>Flow physics of hypervelocity scramjet combustion with oxygen enrichment</td>
</tr>
<tr>
<td>12 September</td>
<td>Zhaobing Liu</td>
<td>Improvement in corrugation detection</td>
</tr>
<tr>
<td>26 September</td>
<td>Dawid Preller</td>
<td>Heat transfer measurements of a hypersonic wing body junction</td>
</tr>
<tr>
<td>10 October</td>
<td>Qian Liu</td>
<td>Influence of hydrogen on metallic for clean energy</td>
</tr>
<tr>
<td>17 October</td>
<td>Alex Grainger</td>
<td>Mechanism for hypersonic scramjet inlet starting</td>
</tr>
<tr>
<td>24 October</td>
<td>George Thomas</td>
<td>Study on the utilization of Dimethyl Ether (DME) in diesel engines</td>
</tr>
<tr>
<td>31 October</td>
<td>Wayne Favier</td>
<td>Integrated piezoceramic transducers for structural health monitoring</td>
</tr>
<tr>
<td>7 November</td>
<td>Zhilin Liu</td>
<td>Novel approach to grain refinement of cast alloys</td>
</tr>
<tr>
<td>21 November</td>
<td>Suoying He</td>
<td>Wetted-medium evaporative pre-cooling for natural draft dry cooling tower performance enhancement</td>
</tr>
</tbody>
</table>

Students noted that attendance has been declining gradually with approximately 20 people in attendance for each seminar, however only 9 attended the most recent. The timing of the seminars was listed as an attributing factor and it was agreed to move the seminars to a lunch time slot in 2015.
6. Postgraduate Engineering Conference

The 2014 EAIT Postgraduate Conference was held on Wednesday 11 June. The winners were –

<table>
<thead>
<tr>
<th>Mech &amp; Mining Prizes</th>
<th>Prize name</th>
<th>Sponsor</th>
<th>2014 Prize Winner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy prize</td>
<td>The Professor Klaus Bremhorst Prize for best presentation related to Mining Engineering and Energy</td>
<td>QGECE</td>
<td>Abdullah Alkhedhair</td>
</tr>
<tr>
<td>Aerospace prize</td>
<td>The Professor Raymond Stalker Prize for best presentation related to Mechanical and Aerospace engineering</td>
<td>Australian Aerospace</td>
<td>Steven Lewis</td>
</tr>
<tr>
<td>Mining prize</td>
<td>The Professor Don Nicklin prize for best presentation relating to mining engineering</td>
<td>CRC Mining</td>
<td>Ben Yang</td>
</tr>
<tr>
<td>Materials prize</td>
<td>The Professor Gordon Dunlop prize for best presentation relating to Materials Engineering</td>
<td>Materials Division</td>
<td>Philip Bennet</td>
</tr>
<tr>
<td>Best 1st year presentation prize</td>
<td>Best presentation from a student enrolled in the first year of an RHD.</td>
<td>School</td>
<td>Xuan Quy Tran</td>
</tr>
</tbody>
</table>

Pisan (Knight) Kulkaew, a PhD student in the School, has been elected as the chair of the 2015 EAIT Postgraduate Conference.

7. Other Business

The next RHD Student Staff Liaison Committee is scheduled on 22 April 2015.