

From: senate@queensu.ca
Sent: Tuesday, January 11, 2011 2:48 PM
To: provost@queensu.ca
Cc: janiecd@queensu.ca; kathy.obrien@queensu.ca
Subject: Senate referral: ePower

To: Bob Silverman Chair, Queen's University Planning Committee
Subject: Proposal to establish the Centre for Energy and Power Electronics Research (ePower)

The attached proposal has been submitted to the Senate by the Faculty of Engineering and Applied Science and was referred on October 20, 2010 to the Senate Advisory Research Committee for review and subsequent recommendation to Senate.

The SARC report and recommendations are attached for QUPC's review and comment at its next meeting.

Thank you for your attention to this matter.

Georgina Moore
Secretary of the Senate

Queen's University Senate
University Secretariat, Room 153 Richardson Hall
Queen's University, Kingston, ON K7L 3N6
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UNIVERSITY

CHEMICAL ENGINEERING

Room 201 Dupuis Hall
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October 27, 2010

To: Dr. Kirkwood A. Woodhouse

Tel. 613 532 3765

From: Dean

Fax 613 532 6007

Faculty of Engineering and Applied Science

http://chemeng.queensu.ca

Beamish-Munro Hall, Rm200

Queen's University

Kingston, ON K7L 3N6

Dear Dean Woodhouse,

Re: Recommendation of the Dean's Advisory Committee on the formal centre status of the Centre for Energy and Power Electronics Research (ePOWER)

The Advisory Committee for the Centre for Energy and Power Electronics Research (ePOWER) has recommended that the Centre for Energy and Power Electronics Research be granted formal centre status. The Committee's recommendation is based on the following factors: ePOWER's proposal for formal centre status and unanimously endorses ePOWER's proposal for formal centre status. Members of the Advisory Committee were:

Co-Chair: Geoff Department of Electrical and Computer Engineering

Hossam Hassanein, School of Computing

Chairman: Joshua M. S. Department of Electrical and Computer Engineering

Keith Pilkey, Department of Mechanical and Materials Engineering

Chairman: John Department of Chemical Engineering (Chair)

Chairman: Faculty of Engineering and Applied Science

Monserat Purno, Faculty of Engineering and Applied Science (Secretary)

The Queen's Senate and members of the University were invited to send comments to the committee. Comments were received.

The Advisory Committee met on June 7, 2010 and again on August 17, 2010. The committee:

- 1) discussed its mandate and reviewed the Senate Procedures Governing the Establishment, Review and Renewal of Research Centres, Institutes and other entities at Queen's University (revised May 29, 2002),
- 2) reviewed ePOWER's application for formal centre status dated March 15, 2010,
- 3) reviewed ePOWER's application for provisional centre status dated January 14, 2009,
- 4) reviewed ePOWER's 2009 Annual Report,
- 5) considered the recommendations as outlined in the letter from VP Research dated March 23, 2009,
- 6) invited Dr. Warren Mahoe, Associate Director, Queen's University Institute for Energy and

Environmental Policy (QIEEP) to respond in writing on how QIEEP can interact with

7) discussed with Dr. Praveen Jain, Interim Director of the Centre and Mrs. Nancy Churchman

8) recommended revisions to the original proposal (revised proposal attached, August 24, 2010).

The Advisory Committee fully supports ePOWER's application for formal centre status as it has met the Queen's definition of a centre as stated in the Senate policy.

1) ePOWER has been operating since March 2009 under provisional centre status and has had successful collaboration among colleagues within Queen's University, School of Business, Engineering, Mechanical Engineering and Chemical Engineering as well as the School of Business. National and international academic collaborators are at University of Western Ontario, University of Waterloo, University of Ottawa, University of Toronto and McGill University. Outside Canada, they have collaborations at Cranfield University (UK), University of Sydney (Australia) and University of New South Wales (Australia). Industrial collaborators include CH2M Hill, General Electric, E.ON Networks, Freescale Semiconductor, Honeywell

Sept 2010-March 2011.

3) ePOWER has generated external funding from Ontario Research Fund – Research Excellence, Ontario Centers of Excellence and NSERC Strategic Grant to support a long term fellows, visiting researchers and engineers.


4) ePOWER has sponsored and shown leadership in supporting the Queen's Solar Design Team and Youth Outreach Program, as well as international conferences.

5) ePOWER has submitted a formal application and has addressed the recommendations of Kerry Rowe, VP-Research, by i) including a statement on intellectual property consistent with Queen's policies, ii) having external representation on their Advisory Board, iii) considering wider recruitment of faculty participation at Queen's, i.e Dr. Joshua Pearce (Manufacturing) and iv) enhancing interaction with Queen's Institute for Energy & Environmental Policy (QIEEP), as the committee received a positive response from Warren Mabee, Director, QIEEP, (see attached letter).

the Centre and has provided excellent leadership in his role as Interim Director. If the Centre is granted formal centre status, Dr. Jain has agreed to serve as Director of the Centre for a five year period.

POWER has chosen to focus on the strategic area of power electronics which has the potential to have a wide range of applications with strong potential for industrial funding. With the current accomplishments of POWER, it is fair to say that they are a world leader in fundamental and applied energy and power electronics research.

In recommending that the Centre's formal proposal be forwarded to the Engineering and Procedures Governing the Establishment, Reporting and Review of Research Centres, Institutes and other entities at Queen's University.



Juliana Ramsay, Ph.D.
Professor, Department of Chemical Engineering
Chair, Dean's Advisory Committee

copy: Advisory Committee Members
Attachments