BE (xxx) University Medal Considerations

Rod Kennedy 20 Apr 2013

Broad Comments

- UM means University Medal
- this is wrt to BE (Hons) and BE (R&D) programs combined
 - they should be treated together
 - UM can (and has) come from either program (obviously successful UM candidate are more likely to come from BE (R&D))
- pretty clearly over the years we have awarded too many, e.g., 8 in 2012
 - in 2012 there was a clear exceptional candidate clearly superior to other the other 7 candidates, which is precisely what the UM should capture
- awarding on average one per year should be a realistic expectation
- awarding more than one per year should not be excluded but be relatively rare
- awarding none in a given year should not be excluded but be relatively rare

Analysis

- In BE (xxx) the primary indicator is the *APM Mark* (average percentage mark or pseudo-GPA) and the secondary indicator is the *Thesis Mark*
- It is rather clear that the Thesis Mark is quite subjective and noisy, and should only be considered in borderline cases
- So we just rely on the APM for some analysis
 - we look at data from 2001 to 2014
 - successful UM's have secured APMs in the range 83–91%
 - as a working rule generally an APM of 85% is needed (more recently)
- Table showing the results from 2001-2014

APM Lower Bound	Total Number of UMs 2001-2014
91	1
90	2
89	6
88	13
87	25
86	40

Recalibration

- APM 88+ and leads to an average of one UM per year (13 in 14 years)
- APM 87+ and leads to an average of two UM per year (25 in 14 years)
- The data shows the effect of raising standards

Year	Mock APM 88+ UMs	Actual UMs
2001	0	2
2002	1	2
2003	0	1
2004	0	1
2005	0	1
2006	1	3
2007	1	3
2008	3	5
2009	1	3
2010	0	1
2011	0	2
2012	4	8
2013	1	3
2014	1	8
Total	13	43

Recommendations

- APM of 88 and above should be advanced for UM
- APM of 87 should only be advanced for UM with a strong *Thesis Mark* (90+) and in the absence of any stronger candidates (no APM of 88 and above candidate in the same year/cohort)
- APM of 86 and below should not be advanced as candidates for UMs
- We do use APM for honours calculations and that is fine; I recommend that we start also using GPA for UM medal calculations as this better conforms to university expectations.
- There should be one round of UM nominations each year (mid-year cohort is smaller)

Raw Data

6 UM'S FOT APM 89
13 UM'S FOT APM 88
25 UM'S FOT APM 87
3 UM'S FOT APM 90

Appendix III

APM

Nominations/Recipients of the University Medal in Engineering since 2001

Year Content Content	90+	89	88			Transfer of the					
Ben Sheard					YEAR	NOMINEE	APM Mark	Thesis Mark	University Medal		
2002 Michael Williams	0	0	0		2001		N. Control of the con				0
Sachin Doshi Sachin Doshi Sachin Doshi Kris Modrak S4 S9 No				1	2002					****	
Kris Modrak	0	1	0	٧	2002			12400)			1
2003 Michael Chan 86 87 Yes No							1.300.00				
David Excell 82 89		-			2003						
2004 Rhys Goodwin 86	0	0	0		2000		12 22 2	The same		P.,	0
2005 Ju Lynn Ong 86 87 Yes	0	Ò	0		2004						(3
2006 Gregory L. Davies 88 87 Yes Sung Han Cha 87 86 Yes Yes Yes Yes Xamgyun Zhon 90 87 Yes Yes Andrew Sutton 86 91 Yes Yes Andrew Samuel Francis 87 96 Yes Yes Xamgyun Zhon 90 87 Yes Yes Yes Andrew Sadwell 86 91 Yes Xamgyun Zhon 85 90 Yes Yes Xamgyun Zhon 85 90 Yes Yes Xamgyun Zhon 85 90 Yes Xamgyun Zhon 85 90 Yes Xamgyun Zhon 85 90 Yes Xamgyun Zhon Yes Yes											
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1 0 0 0 0 0 87 Yes											-1
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Jason Schiemer 88 91 Yes Yes Yes Yes Yes Yoong Siang Oh 87 87 Yes Yes					2008					****	
Neil Bennett										The second secon	
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Simeon Baker-Finch 86 88 Yes										* * *	
							- 98900				
Peter Coote					2009						
Nicholael Chisholm								1967/1997			
Christopher Morrow Keng Siew Chan 87 90 Yes 2010 Pei Leong Lucinda Teague 84 92 No 2011 Nicholas Riesen Peiting Zheng 87 94 Yes 2012 Jing Guo 88 99 Yes Yeqing Hu 86 90 Yes Yeqing Hu 86 90 Yes Peiting Aspden 89 90 Yes Yeqing Hu 86 90 Yes Peiting Aspden 89 92 Yes Peiting Aspden 89 90 Yes Peiting Aspden 89 Nominee	1	0	0		STATE OF THE PARTY OF	Michael Chisholm	THE RESERVE OF THE PARTY OF THE	91	Yes	***	Ĭ
Keng Siew Chan						Christopher Morrow		93	No		
Lucinda Teague						Keng Siew Chan	- XXXXXX	100.000.000.000.000	Yes		
Lucinda Teague	C7	0	0		2010	Pei Leong	86	90	Yes		0
Peiting Zheng	O	O	O			Lucinda Teague	84	92	No		
Peiting Zheng	(1)	2	0		2011	Nicholas Riesen	85	93	Yes		0
Yeqing Hu 86 90 Yes	O	O	O			Peiting Zheng	87	94	Yes		
David Aspden 89 92 Yes					2012	Jing Guo	89	90	Yes	京乔采水	
2 Elizabeth Coonan 88 91 Yes						Yeqing Hu	86	90	Yes		
Samuel Francis So So Yes Yes Timothy Hall So So Yes		4.			2.14.1.19	David Aspden	89	92	Yes	XXX	4
Timothy Hall 86 90 Yes Weiyu Huang 91 90 Yes Emily Teoh 87 95 Yes	1	2	}			Elizabeth Coonan	88	91	Yes	***	4
Weiyu Huang 91 90 Yes						Samuel Francis		96	Yes		
Emily Teoh 87 95 Yes 2013 Yon Hon Ng 87 93 Yes Josiah Khor 89 89 Yes Joyce Yeoh 87 94 Yes 2014 Craig Wang 89 90 Yes Bomin Jiang 86 96 Yes Matthew Shadwell 86 87 Nominee Nicole Dodd 86 91 Nominee Shanae King 87 93 Nominee Xiaohui Zhou 85 90 Nominee Jianzhang Zhang 87 94 Nominee Sriraj Srilakshmi 87 90 Nominee							86			V	
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