



School of Chemical & Biomedical Engineering

Citations of winners SCBE Student Achievement Award 2012

The SCBE Student Achievement Award recognizes outstanding performance of undergraduate students in academic/research excellence, contributions to school/society, sports, leadership/organizational skills and other activities which SCBE would be proud of. Each recipient will receive a certificate and IT allowance. We congratulate the following 20 students for winning the award in 2012.

BioE Year 3

Elizabeth Lee Mei Lin Elizabeth is currently a third year Bioengineering student reading at the School of Chemical and Biomedical Engineering, NTU. She has won several awards and scholarship, including the Merit award at Temasek Polytechnic's Engineering Project Show, the Senoko Energy Project Prize, the Merit award at the Biomedical Engineering Society 5th Scientific Meeting, and the ASEAN Undergraduate Scholarship. She participated in the National Healthcare Group 8th Annual Scientific Congress with a paper titled "Establishment of Gender Match Norms for P300 Auditory Evoked Potential". Elizabeth was involved in the Undergraduate Research Experience on Campus (URECA) programme where she completed a study on "Optimization of Liposomal Synthesis for the Study of Gold Nanoparticle-Enhanced Photothermal Effect" at Singapore Institute of Manufacturing Technology. She is continuing her work there under URECA on plasmonic photothermal effects. Her latest paper titled "Metal-Enhanced Fluorescence in Liposomes for Photothermal Studies" was accepted for the Photonics Global Conference 2012.

He HuiLing In terms of academic work, HuiLing has been studying hard and efficiently, managed to be on Dean's List for past two years. In terms of research achievements, she has been doing CNYang Attachment Research since year 1, and got paper *Multifunctional Graphene Quantum Dots Conjugated Titanate Nanoflowers for Targeted Drug Delivery and Fluorescence Tracking* as second author in preparation for submission. Besides that, she also has a colourful college life by joining different kinds of ECA and community work. As the vice precedent of Biomedical Engineering Society (BMES) NTU, she works together with committee members preparing club events beneficial to SCBE students, including informal sharing session, inter school lab visit, BioBiz conference etc. As a member of Welfare Service Club, she volunteers in AWWA Community Home and Renci Hospital every weekend. As a first aider in Red Cross NTU, she had been continuously taking first aid duties and managed to get standard first aid certificate February 2012.

Sinha Ameya An aspiring biologist, Ameya Sinha is a junior at NTU pursuing a degree in Bioengineering along with a minor in Business Studies. Ameya has consistently maintained a cGPA of 4.46/5 and has been placed on the accelerated bachelors program. At the same time, Ameya has always been an active participant in various extra-curricular activities; having served in the main organizing committee of numerous clubs at NTU. He has completed several research internships and was recently awarded a summer fellowship at the Singapore-MIT Alliance for Research and Technology. Ameya has also been a URECA scholar and, at present, is carrying out his final year project in the lab of Dr. Sierin Lim at NTU. He aims to pursue his doctorate upon graduation, culminating with a career in academia.

BioE Year 4



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Koh Guo Wei, Alvin Throughout Alvin's journey in NTU, his curiosity has led him to achieve academic excellence which places him in Dean's List for all the 3 past years. The A*STAR Pre-Graduate Scholarship is another trophy which he earned thanks to his inquisitiveness. Apart from driving him towards these academic achievements, his curiosity has also led him to question inefficient conventionalities and pursue meaningful adventures. He began one of these journeys in January 2012 when he was nominated to be the leader of a team participating in a highly competitive event which spanned across universities in USA, UK, India and Singapore. After 5 months of Abbott Innovation University Challenge 2012, his team was awarded 1st in Singapore and 3rd overall. Another venture is the ongoing Change Agent business competition where he has led his team into the finals.

Liu YuXin Liu Yuxin is currently a senior student in the Bioengineering Division of School of Chemical and Biomedical Engineering (SCBE). He was awarded Dean's List Honors for three consecutive years (2009-2012) for excellence in academic performance. With passion in science and research, he participated URECA and URECA-FYP program to enrich his research experience. His effort has led to several publications in top journals such as *Journal of materials chemistry* and *Chemical Society Reviews*. In addition, he actively participate various school activities. He was the welfare director in 7th management committee of SCBE club and successfully organized many school events, such as free moon cake distribution, exam welfare dinner, goodie bag distribution, printing credit sales and old book sales.

Mao Ning Mao Ning has maintained outstanding academic performance through the first three years of study. Being actively involved in scientific researches like URECA, IBN (A*Star) internship and Singapore-MIT Alliance summer research fellowship, she aims to pursue graduate studies in the field of innovative biotechnologies. She also took part in some side projects. A noticeable achievement was winning the third place in the international Abbott Innovation University Challenge 2012 with two other teammates from BIE. Besides academic excellence, she also contributed to SCBE by joining the Biomedical Engineering Society (BMES) NTU and organizing various events that are beneficial to her peers. With the International Student Exchange Program, she had a chance to go to University of California, Los Angeles and representing BMES NTU to communicate with the counterpart students' organization in the US. In the coming years, she will continue to work hard and make more valuable contributions that SCBE will be proud of!

Nandita Beri Nandita's excellence in academics (CGPA 4.91) has given her a place on the dean's list and the honor of becoming a URECA Scholar. She has also shown remarkable achievements in extra-curricular activities. She was elected as the Vice President of Earthlink, a Tier 1 club. During this, she launched campaigns like Bring Your Bag Daily & Default Double sided printing which succeeded in reducing paper and plastic consumption in NTU. She was also the third place winner of ICON Recruitment Competition 2012 and the Business Manger of NTU Model United Nations 2011. One of her most significant accomplishment was a study she performed during her internship at GE Healthcare, which was later accepted for European Society of Cardiology (ESC) Congress & Transcatheter Cardiovascular Therapeutics (TCT) Conference. Lastly, her analytical mindset and good communication skills helped her secure and complete a 10-week internship in Barclays to further her interest in Finance.

CBE Year 2

Tan Pin Xiang Alvin Alvin is currently in his second year, reading Chemical and Biomolecular Engineering. He is also in the CN Yang programme, under which has to read additional modules of mathematics and other branches of sciences. Although the CN Yang modules add on to the rigour of the course he is currently pursuing, it provides him with a strong foundation in science, letting him appreciate the technicalities of other core modules.



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Also, he had the privilege of having intellectual discussions with the other scholars, which he found highly engaging. Under the instructorship of Associate Professor Xu Rong, he took charge of a small environmental-related research project, working on the efficiency of catalytic degradation of EDCs (endocrine-disrupting compounds) in wastewater. He was also given the opportunity to lead the NTU CAC String Orchestra as Chairperson. Through this experience, he learnt the finer points of formal engagement with others, and the delegation of tasks to members.

CBE Year 3

Geng Li Geng Li joined CN Yang Scholars' program since both science and engineer fascinate her. With a good overall academic performance, she was awarded Dean's List for academic year 11/12 and 10/11. She was also awarded Book Prize for CN Yang scholars. Starting from year 1 semester 2, she has been working on research projects in SCBE which is a great and fun journey. At the beginning of this semester, she took part in Singapore Entrepreneurship Challenge with two other teammates. Her team won first runner-up in the competition. In year 2 semester 2, she went to UCLA for exchange where she received extensive overseas exposure. Coming back here, she looks forward to continue the life in Singapore with a fresh mindset.

Tan Bo Yuan As the Captain of Hall 10 Swim Team, Tan Bo Yuan led the team to clinch medals in the annual Inter-Hall Games for two consecutive years. He was also awarded the Best Sports Sub-Comm and Sports Captain of the Year in recognition of his effort by Hall 10. He swam for SCBE in the annual Inter-School Games whereby the Team secured an overall first placing. He was the Team Leader for his Hall OCIP Team whereby he was responsible for the day-to-day activities of his team. Being the Logistic Officer for his school FOC Camp Nueve 8, he was responsible for the overall logistic movement of the whole camp. He also represented NTU in the inaugural Chem-E Car Competition which was the 14TH Asia Pacific Confederation of Chemical Engineering Congress. This project was also under his URECA which is an On-Campus Research Program available to students who had excel academically. He was presented with the President Research Scholar upon completion.

Tan Jin Sheng In Year 2010/11, Tan Jin Sheng took up the portfolio as a sports subcommittee in SCBE. He managed the SCBE floorball team as the team manager during the inter-school games. We organised training session and friendly matches between other schools. For the first time, SCBE won silver in floorball and even third in the overall school ranking. In Year 2010/11, I took up the role as an Assistant Chief Group leader in SCBE Freshmen Orientation Camp, NUEVE 7. In Year 2011/2012, I move on to take up the Co-Chairperson position in the 8th management committee, Nueve 8. I was responsible for leading both the welfare and the logistic support of the whole camp. Currently, I am participating in GEM-Explorer exchange program in Technische Universitat Hamburg-Hamburg, Germany.

Tay Gan Ther Tay Gan Ther truly felt honor to be conferred the SCBE student achievement award 2012. Throughout his tertiary education, he has maintained credible academic performances while being active in various co-curricular activities. In his freshman year, he was the elected business manager of the 23rd JCRC in Hall of Residence 5. Subsequently in his sophomore year, he was the business development executive of AIESEC Singapore Green Entrepreneurship department. Right now, he is contributing to the SCBE OCIP team as a local CIP coordinator. Also, he has represented SCBE in various competitions such as the Shell Games Challenge 2012, the Shell Technical Case Challenge 2012, NTU Ventures 24-Hour Designathon Challenge 2012 and the Barclays Trader of the Year 2012. Apart from that, he has also contributed to the awareness and recognition of SCBE through his summer internships in SembCorp Marine and OCBC Bank.

Weng YiQi Weng YiQi received numerous bursary awards in acknowledgement of my consistence in maintaining good grades. She was also given the title of "NTU President Research Scholar" upon completion of the



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URECA project. In her first year of study, she participated in the SCBE FOC Committee as a programmer. Besides that, she was involved in NTU MJ Hip Hop and represented the school in various performances. She was also an active member in the Hall of Residence 12. She held the role as the captain of hall cheerleading team and represented the hall in HOOC for two consecutive years. She was the pageant coordinator and chief programmer of the DND Committee in 2010/11 and 2011/12 respectively. Moreover, in her second year, I took up the programmer role in Hall Border: Extended adhoc event. She also performed for hall dance in the HOCC. She was subsequently awarded with the Hall Half-Colours and Full-Colours Awards for Performer of the Year in recognition of her contributions.

Yap Wei Quan In Year 2011 and 2012, Yap WeiQuan represented Nanyang Technological University as an Inter-Varsity-Polytechnic (IVP) player for table tennis. In both consecutive years, he obtained 1st runner in IVP games. In addition, he obtained a 1st runner-up in the Singapore University Games (Sunig). In Year 2011, he joined the SCBE club as a sports sub-committee. He was the manager for the captain's ball team. His team obtained a 1st runner-up in the annual inter-school games (ISG). He was also a player in the table tennis team, clinching a bronze medal in the competition. SCBE eventually clinched her first medal, an overall 3rd in NTU. In 2012, he was in the URECA programme. His team and he represented NTU to participate in the Chevron Chem-E car competition which was the 14th Asia Pacific Confederation of Chemical Engineering Congress. He was presented with the NTU president research scholar upon completion.

CBE Year 4

Chong Zhi Yao Chong Zhi Yao was a President Research Scholar under ATREC - URECA Programme 2010/2011. He was also proud recipients of the NTUC, Ted De Ponte, C J Koh and Tan Sri Tan Chin Tuan Scholarship year by year from 2009 to 2013 in NTU. On top of juggling up to 12 hours of tuition, he managed to maintain a high GPA over the last 4 years in NTU. He understands that giving back to the community is important and took part in events like CHINGAY 2011 and also helps out as a volunteer at his community club under the youth executive wing.

Lai Kai Lin SCBE has provided Kai Lin with ample opportunities to explore my strengths and interests. Having been in the SCBE Club Management Committee for 3 years, she was part of the organizing team behind the many events held in SCBE. She had also participated in the Abbott University Innovation Challenge in 2012, attaining an honourable mention among all international teams. Undeniably, the challenging workload in SCBE has trained her to juggle academic and non-academic work well. She had the chance to participate in a URECA project and IRP which focuses on the construction of self-assembled Nanoparticles to be used as drug carriers. On top of that, she does not lose sight of her passion and interests in community involvements. This year, she was part of the team of 30 people who went to Yangon, Myanmar to teach in an orphanage and to help raise fund for their operations.

Lim Zhen Long As a student in NTU, Zhen Long was elected Vice-President of the Global Immersion Program Student's Club in 2011. Apart, he has won several awards and recognitions, including First Prize in Shell's Technical Case Challenge 2012 and Procter & Gamble's Power of You award as a Summer Intern. While juggling his extracurricular activities, he managed to maintain a cGPA of >4.50 over the past 3 years, bagging the Dean's list in AY11/12 and invitations to the URECA programme (AY10/11 and AY11/12). Prior to enrolment at NTU, he served as an Artillery Officer during his National Service and was the Captain of the Table Tennis team in his Junior College. An avid runner and traveller, he has been shortlisted from a pool of international applicants, as a volunteer for the ultra-endurance Gobi March 2013 footrace, to be held in the Gobi Desert next year.



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Priya Andleigh Priya Andleigh, currently a Chemical and Biomolecular Engineering Year 4 student, has striven to maintain an excellent academic record and a well-rounded personality. She is the recipient of Singapore Airlines-Neptune Orient Lines and was placed on the Dean's List 2010 for distinguished academic performance. She is also a Gold Medalist in National Science Olympiad 2006-2007 held in Mumbai, India and participated in Undergraduate Research on Campus as President's Research Scholar. Passionate about contributing in the field of education, she is a silver award winning mentor at NTUSU BP Mentoring and also assumed leadership positions as the Financial Controller and Social Director of the club. She volunteered and co-founded a community service organisation "Shoelaces" for the cause of education of under-privileged children in India. She headed a Freshman Orientation Camp, "Milaap 2011" as the Vice President. With internship experiences in multi-national companies like Procter & Gamble and ExxonMobil, Priya aspires to make SCBE proud through her endeavours in her professional career as well.

Su HaoFei Su HaoFei has been a consistent academic high-achiever. He was awarded Dean's List for the past years of study, NTU President Research Scholar. His passion for results, belief in teamwork and charisma in leadership has been tested by various projects, competitions and job assignments. They are PATW 2012 NTU Champion, Singapore Entrepreneurial Challenge 2012 First Runner-up. Working experiences includes Fundraiser, Engineer Intern, Research Assistant, Librarian Assistant, Sales Representative etc. He also constantly devotes himself to community voluntary work. He was a calligraphy teacher aide at Queenstwon Secondary School, English instructor in Ho Chi Minh City, Vietnam.

Tee Chin Yun Chin Yun has been actively involved in activities outside SCBE which spreads across Sports, the Performing Arts and Student Clubs. Since 2009, she has been with NTU Dancesport Academy as a performer and competitor doing Latin Ballroom Dance and was the Treasurer of the club over the past year. In Sports, she was part of the Champion NTU Female Squash Team in the 2010 Singapore University Games and also served as the Vice-Captain of the female team this year. She was the Overseas Trip Director of the CN-Yang Scholars Club and successfully organized two educational exchanges cum leisure trips to Taiwan and Korea. Within SCBE, she participated in Nueve 6 as an Orientation Group Leader and was involved in 2 academic research projects. She hopes that her achievements can be an inspiration to fellow SCBEians in believing that life in SCBE can be more than just schoolwork if they really want to make it happen.