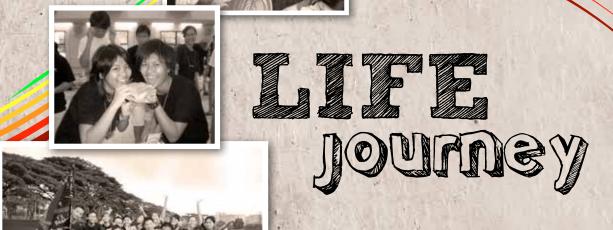




School of Physical and Mathematical Sciences



Graduation Yearbook 2012

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VISION

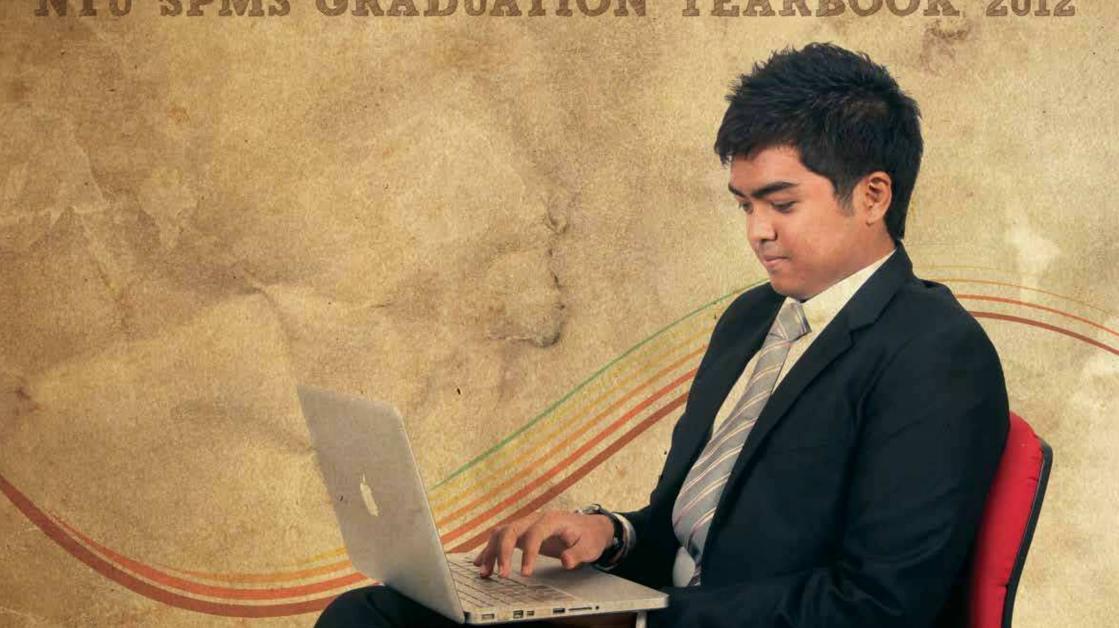
Our vision, and our tasks, is to build a renowned school with strong faculty, innovative curricula, promising students, strong links with industry and supportive alumni.

MISSION

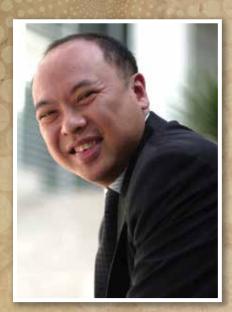
Our mission is twofold:

- 1. In teaching, to impart the habit and mode of thinking in science and mathematics using the most effective pedagogical methods;
- 2. In research to contribute to the scholarship of discovery, integration, application and teaching.

INTESSACIES NTU SPMS GRADUATION YEARBOOK 2012



MESSAGE FROM THE CHAIR



First, congratulations on your graduation! You can be proud of what you have achieved.

As much as this is an event for celebration, it is also an opportunity for reflection. As the eloquent Adlai Stevenson once said to the Princeton class of 1954, "Don't forget when you leave, why you came."

You came for many things, and in the process of pursuing those, ended up achieving more. You came to acquire knowledge and ended up developing character.

You came to make a difference to yourself and ended up making a difference to others, enriching the lives of your fellow students as well as those of us who work here.

You came to build your dreams and while I think the world is not radically different because of you, it will not remain quite the same.

I want to thank you for choosing SPMS at NTU and wish you every success as you step into a new spring.

Associate Professor Chee Yeow Meng Chair, School of Physical and Mathematical Sciences

MESSAGE FROM THE HEAD OF DIVISION



Congratulations, Class of 2012! I hope that your undergraduate years in CBC were a well-spent and meaningful period of your life and I'm sure you will leave CBC with many fond memories of your time in the lecture rooms and research laboratories.

Graduation is one of the major milestones in your life and the best is yet to be!

Associate Professor Chiba Shunsuke Head, Division of Chemistry and Biological Chemistry

MESSAGE FROM THE HEAD OF DIVISION



Dear Graduates,

I congratulate you on your academic success. This is a truly well-deserved achievement.

I taught most of you in Year I and have experienced myself the work and commitment you put into your studies. The degree in Mathematical Sciences or Mathematics & Economics you have earned provides you with solid foundations and flexibility for your career. Make good use of these opportunities! The knowledge and skills you obtained and the friendships you developed during your time at NTU will nurture your future success.

I thank your parents and friends and those who are close to you for their support. I am sure they share the pride we feel for your achievements.

Last but not least, I would like to thank my colleagues who worked hard to provide high quality education, inspired you through personal discussions, encouraged you, and advised you on your future career.

If you have the chance to visit our Division sometime, I would be pleased to hear about your accomplishments.

"Viel Erfolg!"

Associate Professor Bernhard Schmidt Head, Division of Mathematical Sciences

MESSAGE FROM THE HEAD OF DIVISION



Dear Class of 2012.

Congratulations on your graduation! You have accomplished an important achievement.

I wish you a successful career ahead and hope that the learning experience that you have gained from SPMS will be helpful in your life.

Please keep in touch. You are always welcome back.

Associate Professor Phan Anh Tuan Head, Division of Physics and Applied Physics

MESSAGE FROM THE FACULTY



Professor Ling San

"My heartiest congratulations to every one of you as you move on to a new stage in your life, after having successfully completed yet another milestone in this journey. You have been among the privileged ones. With privilege comes responsibility. I strongly encourage you to pay forward the blessings you have received thus far, even as you pursue your personal dreams. I wish you happiness and success!"



Associate Professor Leong Weng Kee

Congratulations! The next phase of your life has just begun...my best wishes to all of you!



Assistant Professor Fan Honglin

"My congrats! What you've learned in courses may not be useful in your career, but what you've learned in our school could be lifelong useful."



Assistant Professor Yu Ting

"Being with you guys and gals was a pleasant period for me. Thanks for the patience, participation and cooperation you have exhibited during my teaching. In your coming future, I hope you all gain enough valor, wisdom and justice while proceeding towards success and happiness. In pursuit for essence of life, don't forget to stop a little bit sometimes, take a rest and look around you, and then keep going. Life is splendid yet challenging; learn to enjoy the sweetness and bitterness therein. May the best wishes go along with you."



Dr Fedor Duzhin

It's been a pleasure to teach you. Good luck!



Dr Linda Sellou

Felicitations to all of you!! You've made it! I wish you all the very best for your future career and whatever you do... always put all your heart into it and never forget Squids and Coconuts.



MESSAGE FROM THE STUDENT LEADER

Warmest greetings Graduating Class of 2012,

Firstly, thank you very much for your efforts in shaping the SPMS identity. Admittedly, I believe the school culture had been very much influenced by your commitment and dedication in the many projects and committees under the SPMS club.

William Davies once said "What is this life if full of care, we have no time to stand and stare." These lines resonate the need to lead a life that is worth living by your definitions. As all of you move into the next phase of life and into the complex working world, remember to lead a life that you wish to lead and lead it well. While there is also much to pursue, never forget to take some time off and cherish the relationships you had made, be it family or friends.

It is with great honor to have engaged with so many of you and to see all of you take flight from SPMS and into this very next phase. I would like to take this opportunity to wish all of you the very best in your future endeavors. Do remember to treasure your friendships with your peers and your juniors and to always cherish the sweet memories you had of this institution.

I do hope to see as many of you back as part of the SPMS Alumni and to also actively take part in the SPMS Alumni club's activities.

Bonne Chance!

Kenneth Lai President 7th Management Committee School of Physical and Mathematical Sciences Club Nanyang Technological University

"LIVE as if you were to die tomorrow.

LEARN as if you were to live forever."

-Mahaima Gandhi-

INTESTINATION YEARBOOK 2012





















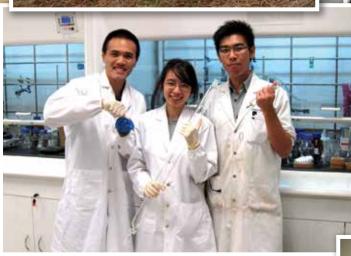


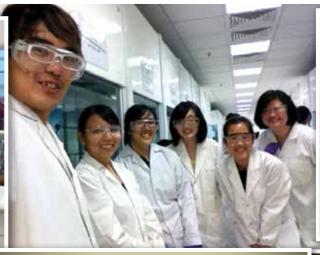






































undergraduate life











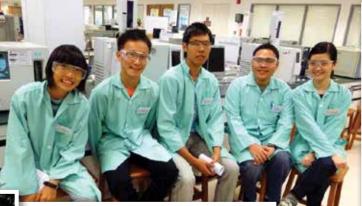












During GSS in Munich





















































































































IA at EPChem









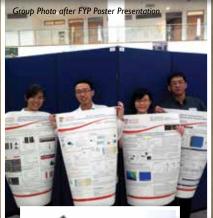


UNDERGRADUATE LIFE











































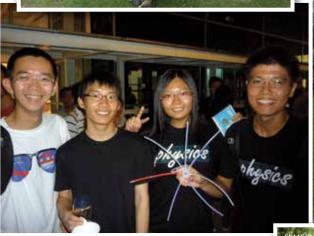






































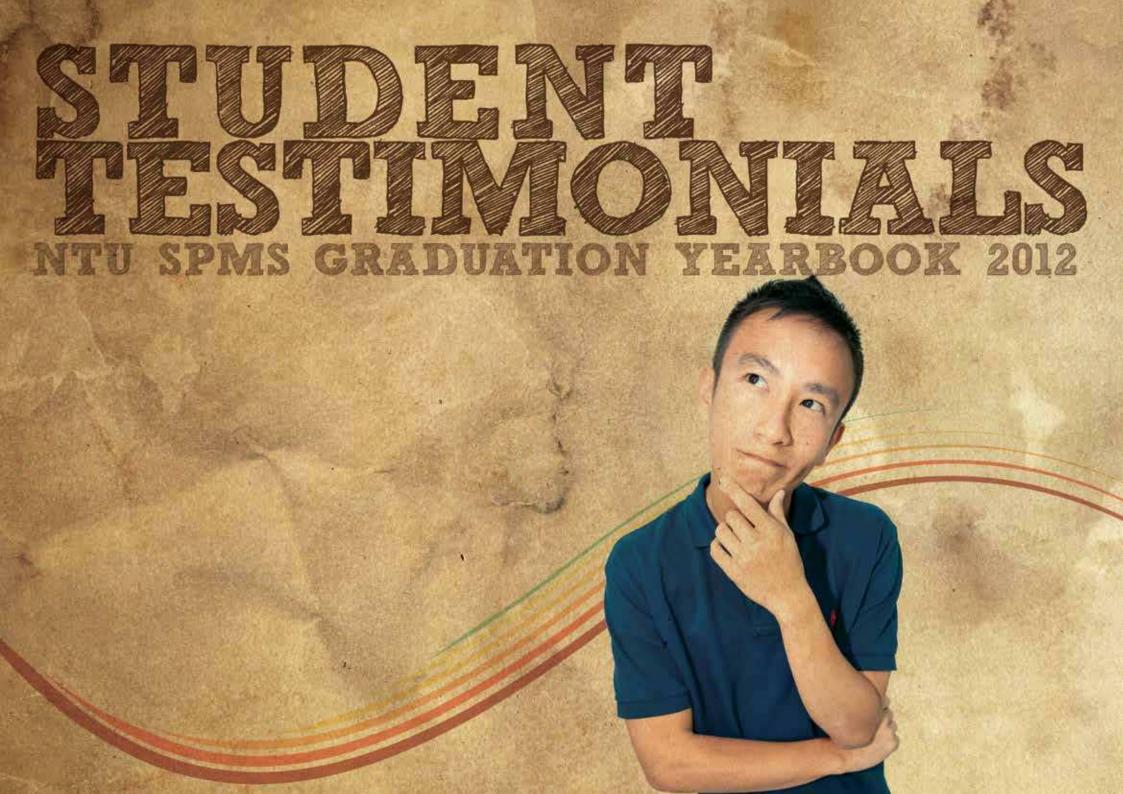






undergraduate life





Student to Professors Testimonials



Koh Wen Qiang

As a student under the care of Dr. Roderick W. Bates, my impression of him is that he is very knowledgeable and well-educated. His lectures never failed to impress me, especially the Forensic Science lectures. They were the finest, the most interesting as well as the most informative lectures that I have ever attended. In addition, it was an honor to work under his guidance for my mini Final Year Project.



Chin De Shun

Sometimes, you sacrificed your lunch hours to cater to our consultations. Your passion in taking part in discussions with students made learning more enjoyable and you've helped many students like me in many ways to make INSTEP a reality. Thank you Dr. Siow Kok Siong!



Eric Ng Cheunhoe

Testimony for my MAS328 Stochastic Processes' lecturer: Assoc. Prof. Nicolas Privault: An amazing lecturer who taught not only in an unconventional yet exciting way but also the right way to incite all of the students to figure out what is behind the concept rather than to blindly accept all the theorems without contemplation. Good job, my favorite lecturer!



Chee Kian Sen

I would like to thank Asst. Prof. Pan Guang Ming for his dedication and effort spent on nurturing me to become who I am today. He was willing to spend time explaining to me concepts and questions, sometimes even repeating what was taught in class. He also takes my questions seriously and attempts to answer them in the best way possible. Hence, his dedication spurred me on to work even harder.

guess this is his ultimate strength, encouraging students to work hard willingly. To my smartest friend and mentor, Asst. Prof. Pan, it was great fun talking to you. You made lab lessons a lot less painful. Thank you for everything.



Joanne Kong Min

I just want to thank Asst. Prof. Chan Song Heng and Asst. Prof. Chua Chek Beng for helping me with the process of my INSTEP application. I really appreciate their help and they have been very kind and approachable. I wish them all the best in their careers!



Nelly Ng Huei Ying

The impact Asst. Prof. Koh Tieh Yong made throughout my learning experience at NTU is indescribable. Never in my experience was a class more thrilling, with a rich blend of logical clarity and humour. His excellent insight into atmospheric science has inspired

me tremendously. I thank him for giving me a wonderful experience throughout my undergraduate learning, and I wish him all the best in his future endeavours!

Asst. Prof. Elbert Chia made a huge impact throughout my learning experience at NTU. I loved his Statistical Mechanics II course, and I also learnt much from his ways of teaching while working under him as a tutor for QMI. We enjoyed many discussions on the topics of research, scientific knowledge, philosophy and religion, and he directed me to discover many quality materials on these subjects. I respect him greatly, and appreciate his genuine concern for the wellbeing of his students. He has made a significant difference in my life and to this I am forever grateful.

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Student to Professors Testimonials



Nur Diyana Binte Zakaria

To Associate Professor Bates, you really inspired me to love chemistry so much more with your insightful lectures!



Siah Pei Shan

I would like to grab this opportunity to express my gratitude to Dr. Bates. He is a respectful and fun-loving professor who brings life to organic chemistry. His passion for teaching was recognized by his numerous teaching awards. He provided me with many opportunities to learn and grow under his care. He taught me that we are living in a small world where there's so much more to explore! I sincerely appreciate what he did.



Soh Li Ting

Prof Loh Teck Peng welcomed me to his research group during my summer research in 2009 and 2010. Under the mentorship of both Prof Loh and Dr. Wang ShunYi I have learnt many concepts and organic reactions, which are useful not only for my research but are also applicable to my academic studies. I thank Prof Loh for giving me the opportunity to further hone my laboratory skills and techniques and igniting my interest in organic chemistry research.



Tan Jui Kiat Errol

I would like to take this opportunity to thank Asst. Prof. Xiang Liming and Asst. Prof. Qin Yingli for helping me to discover the world of statistics, which built up my interest in the field of statistics and real-life applications. I started off not knowing what I wanted to do or study. It is only through their lectures (Prof. Qin's MAS 452 and Prof. Xiang's MAS 456) that led me to discover my passion

and the field I want to work in. Thank you both very much.



Tao Ye

My MASIIO - Introduction to Scientific Programming & MASII4 - Linear Algebra I courses were taken under Prof. Bernhard Schmidt. He was the tutor of my MAS2I5 - Probability & Statistics I as well, thus I had the opportunity to study under him for one and a half years. It was a happy experience.

Prof. Schmidt is very conscientious and careful academically. Although he sometimes appears kind of shy when he is teaching, I still can see the passion he has for maths. He is a nice and kind professor to work with.



Ter Mei Mei

Special thanks to Asst. Prof. Qin Yingli and Asst. Prof. Pang Guangming. I could really feel their passion in teaching. =)

Student to Professors Testimonials



Vinod Kumar Murugan

Assoc. Prof. Leong Weng Kee

There is a saying "The best minds are idiosyncratic and unpredictable as they follow the course of scientific discovery." Professor Weng Kee has proven that saying, by providing the world of Nanyang Technological University with excellent research and a unique teaching style, captivating and motivating students all around.

He is a firm, strict and disciplined lecturer, undoubtedly due to his position as an Army Major(NS). But these qualities endeared us to him, for he laid the foundation to extract the best knowledge and studying strategies from us. Counting down the seconds upon whom we have to submit our assignments, reminded us time and again how valuable our time was in university. To another person he may seem harsh and unfriendly, but he possesses a quality that belied all of our negative opinions: Passion. A teacher, born to pass on the love and knowledge of science, who goes beyond the extra mile to ensure no student gets left behind, is once more a reflection of a true Army Major. Frank and realistic, Professor Leong Weng Kee achieves the impossible- of the attention of a full lecture class with the sentence: "Take my modules only if you are interested, as this course is not something you can easily get an A for."

Asst. Prof. Robin Chi

A professor whose middle name ought to have been 'Passion', Professor Robin Chi has been gifted with the ability to think faster than he can speak. I have yet to witness Professor Robin being unable to answer any question students could think of. He may appear to struggle with the question, but only upon answering do we realize that he was merely struggling to explain the answer in a way our malnourished brain would be able to absorb and understand. That in itself is an excellent example of his passion and interest to pass on his rich heritance of scientific knowledge to us students. Blessed with a cheerful disposition and diligence which he enforces upon us, Professor Robin has taught us that Passion is the mysterious stimulant to ensure successful experiments.



Wang Jingyi

This goes out to Assistant Professor Frederique Oggier who is my mentor in SPMS. To me, she is the most beautiful professor I've ever met. When I first enrolled in Math and Econs, my GPA was not ideal and I was stuck juggling between my studies, CCAs and personal life. She gave me a lot of advice based on her own experiences. Her encouragement made me strong, and my GPA turned to be very good afterwards. Since I was a member of the German Society, and Professor Frederique was Swiss, she helped me with our events by sending out our posters and through word-of-mouth publicity. She even attended some of our events. I was really touched. She always encourages me to do the things I am passionate about, and because of her, I chose to undergo summer exchange in Germany. When I was worried about my

future after graduation, Professor Frederique is like my big sister, who kindly helped me to explore my passion and choices. Therefore, I decided to pursue further study in my favorite field.

Professor Frederique is a caring, attractive, charming, understanding and knowledgeable professor.



Yeo Xue Liang

My first year in CBC was a difficult transition from poly. Needless to say, I struggled with my studies, especially with CBC113 Organic Chemistry. I was demoralized after failing my first midterm badly, and frankly, I was lost and wondered if I made the right decision in enrolling in a university. But after the release of our results, Dr Chua realized that there were a bunch of weaker students and he took the initiative to organize extra tutorial lessons for us. During his tutorials he would patiently explain the theories, resolving our doubts and I eventually grasped the concept and started to develop an interest in organic chemistry which lasted till now. I would really like to express my gratitude towards Dr Chua for his guidance, the impartment of his knowledge and most of all, his passion in teaching. I'm really honoured to be his student. I wish you all the best in the future!



Wu Xuefei

To Prof Yao Shuntian, I owe great thankfulness to your time and help on our Final Year Project.

To Asst. Prof. Chua Chek Beng Prof Chua is a very very nice professor and his horoscope is Virgo.

His lecture notes are the most well-organized I've ever seen.

To Prof Wu Guohua, Thank you for your help~~~ 祝您桃李满天下。

It is a long long journey, with happiness and tears. 卒业はスタートさ 永远の道程。10年后再见。



Chee Kian Sen

My life in SPMS would certainly be boring without my small group of friends. Yeah, I don't have many to start with. These friends of mine each have their own traits. When exams

or tests were coming up, I would seek guidance from "FU LU SHOU" (Kelvin, Dong Yang and Eugene). When I need to eat, I look for Pumba (Fabius)! He eats 90% of the time! There is the Incredible Hulk (Jade) who always tries to toughen us up with her thrash talk. Tim keeps life unpredictable. To the gossip girls (Stephanie and Si Jie), I totally enjoyed the time gossiping with you guys and making weird signs-"WOW", "LOL", etc. All the best everyone!



Chia Dennis

My experience in SPMS is truly memorable and life-changing. I travelled around the world and made a lot of friends. If I can do it all over again, SPMS will still be the school for me!



Chin De Shun

Skipping a day for the fastest-finger game. Printing notes in 2, 4, 6, 8. Mid-term occurs twice in a term – a paradox. Searching for a tutorial room is like going into the wrong washroom.

Consultations with lecturers become a weekly affair. Being the first to leave the lab feels like you've got an A. Comes next semester, history repeats itself.



Chua Juan Juan

The 4 years of journey in SPMS has not only equipped me with tangible skills and theoretical knowledge in my field but has also provided me with experiences to hone my time management abilities, people relationship skills as well as provided opportunities to explore the world of research

as well as teaching (as a TA). It has broadened my perspective about chemistry and with the ample research opportunities available, I had the flexibility of focusing in the area of chemistry of my choice. Furthermore, the school has been supportive and understanding in my participation of various overseas taekwondo competitions by giving the green light in most of my applications for leave of absences despite the fact that I had to miss not only lessons, but also laboratory classes and tests. Last but not least, many of the professors were helpful and friendly, making the 4 years of journey more enjoyable and less mundane.



Cindy Fransisca Jap

4 years in SPMS has been a wonderful life for me. Started my 1st year in 2009, and now I have completed my degrees. Time really flew so fast. I still remember the day when all of us were struggling through our exams and projects and how we always counted days to the day of last exams and

holidays. I have met lots of friends from different countries and different cultures, and I gained lots of experience during my studies here. I am glad to have this NTU experience. It has been enjoyable studying and playing in NTU with friends and lecturers.



Eric Ng Cheunhoe

My stay in NTU can only be described in one word - "FUN". I still can remember the thrill I felt with my course mates when we needed to cram heaps of stuff before exams. Thought it was stressful, it was also fun since all of us gathered and joked around while struggling. This is my one unforgettable experience in SPMS. These 4 years in SPMS have been tremendously wonderful in shaping who I am today.



He Yao Feng Vincent

First and foremost, I would like to express my sincere gratitude to my supervisors Asst. Prof Xiang Liming and Assistant Professor Lian Heng for their extensive and continuous guidance and support for my FYP. They have helped me a lot. In addition, being one of the students who have taken these professors' math core modules, I have seen that they have put in a lot of efforts in their teaching and preparation of teaching materials (lecture notes, lab, midterm and final year PYP solution). I am also grateful to Asst Prof Pan Guangming, who has taught me for the past two semesters, as he is very friendly and approachable and tries his best to explain to us if we have any questions. I also want to thank Asst Prof Pang Zhen who has taught me for the past three semesters, and Dr. Gao Peng as he always been patient with us. Lastly, I really enjoyed Assoc Prof Nicolas Privault's well prepared lessons in which he explained difficult mathematical concepts using interesting real-life and layman examples, which enabled us to have better understandings.



Li Siwei

SPMS has provided me with a great environment to learn and develop.



Zhang Xiuya

I really enjoyed my life here. Thanks SPMS, for providing us with such a big family.



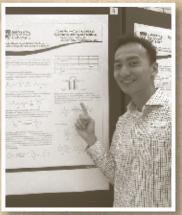
Ignatia Cindy Gunawan

SPMS has been a home for me, with rooms to grow in every aspect of life. All the experiences, lessons, and more importantly, connections with the professors and students, have shaped me into what I am now. I'm so thankful and blessed that I had decided to be a part of SPMS few years ago. Now I'm ready to fly, carrying all the wonderful lessons and memories in my heart.



Irma Listiani

My life in SPMS has been very colorful. There were stressful days when I had to struggle with my studies, rush for deadlines of lab reports, and study for the exams. However, I really thank God for the friends that I met here. I want to thank my fellow CBC friends who used to stay together and studied together with me at Hall I4, and also my CBC friends who had helped me so much; teaching me and helping me to understand what we were studying. It was also really fun when we ate together at Canteen B, had fellowship and shared laughter together! Thanks all! :):)



Koh Wen Qiang

Ever since the first semester in NTU, I have been working part-time in between lessons in the CBC Chemical Store. It was fun and enjoyable, and I had the chance to interact with the post-graduates and professors in the school.

As such, there was always great bonding between the students and the permanent staffs. Occasionally, we will conduct sport sessions such as jogging around the campus or playing badminton in SRC after working hours. Also, who can forget the "crab makan session" outside school!

Special thanks to my bosses, Hendra and Wilson, and many other staffs in the CBC General Office as well as the SPMS General Office, and not forgetting Ramesh and Gladys who have already left the school. I deeply appreciate their patience and care, and their effort of prioritizing our schoolwork.



Joanne Kong Min

It has been such a rollercoaster ride, what with all the camps, events and friendship forged here. The grueling times of study as well as the joyful moments with my course mates who have left footprints in this phase of my life. I am so thankful for my course mates who have been there throughout and all that I've gained during my time in SPMS; I can very much say that this has been a very wonderful and awesome university experience.



Nur Diyana Binte Zakaria

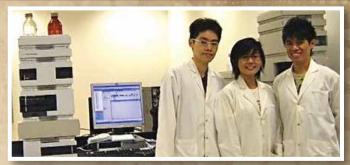
My stay in SPMS has been a fruitful experience: lectures, laboratory work, projects, long queues in Canteen B and best of all, the friends that I've made!



Low Jiun Hui

In the four years that I've been in SPMS and in CBC, I've experience a university education like no other. Pursuing a minor in Physics and undertaking an URECA project in a field outside of my major field of study were

some of the wonderful and challenging things I've experienced as an undergraduate. I also had a chance to learn and interact with overseas educators and students during a GIP program in Shanghai, China. To top it off, I was very lucky to be able to see for myself how it's like to be a forensic scientist when I was doing my Industrial Internship Program with HSA, an experience that most of us always wanted when we grew up watching CSI (and of course, after the interesting Forensic Science module we had during our first year). All these would not have been possible if I've not chosen to pursue my university education in SPMS. Looking back, my journey in SPMS has been quite a unique and memorable one.



Soh Li Ting

My stay in SPMS was exhilarating. Under the tutelage of the professors in SPMS, I have been motivated to strive for and achieve high standards in chemistry. Not only had I gained knowledge and fruitful research experiences from the dedicated teachings of professors, SPMS has also given me the opportunity to develop global perspectives when I was on an academic exchange in University of Edinburgh. Indeed, SPMS has lead me through a memorable and enriching journey, learning new things and meeting new friends from different walks of life.



Lin Yuehong

From "chopping" seats in lecture to stealing products from our lab neighbor when our experiments failed, we've done it all. School wouldn't have been the same without you guys.



Phann Sophearin

The most memorable experience of my time in SPMS is the opportunity to serve my fellow students as a member of the SPMS Club's 6th Management Committee. I personally feel it was an honor, privilege, self-enriching, meaningful and enjoyable. This was one of my wishes from the moment I entered SPMS, and by completing this duty, it means that

SPMS has granted me a door to fulfill a small dream of mine. I really wish to thank SPMS for all the opportunities given to me.



Meena Shukla

I really enjoyed my time in SPMS. The lecturers were simply great and took the effort to explain details right from the root. In addition, it was also nice that although we may have learnt something in Year I, they would still do a quick recap of it in other years if the concept is important. Overall, I had fun studying in SPMS and am glad that I was able to experience the new facilities in my last year of studies here.



Teoh Zhi Sheng Timothy

My life in SPMS has been a magnificent one. I am well-equipped with the right attitude and technical skills to soar beyond my abilities in the working world yet rooted to where I once belonged, SPMS! I have made many awesome friends in here with many fantastic memories.



Yap Shu Min Jesmin

When I began my days in NTU, I looked forward to the day I graduate. However, when this day neared, I wished that time could slow down or even stop. I am very sure that I am not looking to the end of my university life. The most

enriching and fun days I have ever experienced are the days I spent in NTU.

I wouldn't deny that I did face tough times when I couldn't understand the lectures or tutorials, and as a result gave up studying. However, it was this challenge which I eventually accepted, fought with, and then enjoyed the pleasure derived from my victories. Not forgetting the bunch of friends I met in my course of study. Although I met most of you at the later years, I would like take this opportunity to thank you for all the fun we had together! (:

Apart from studies, much of my time was also spent in my CCA - Chinese Orchestra. Despite the heavy workload, it was my fiery passion and enthusiasm in playing Chinese music which brought me through my NTU years. Having taken up a leadership position for two consecutive years, I feel that I am a more confident person who is able to manage situations better. CO sessions are the most enjoyable as I get to meet new people each year, and at the same time, strengthen our current friendship ties as we played music together. There were lots of joy, laughter, and activities that we engaged as a family. With friends of common interest, life can never get more exciting! - "CO is my life!"

Now that I have graduated, I would like to wish my peers: all the best in pursuing your careers! (:



Wang Jingyi

We are the first batch to use the new SPMS building. We also witnessed the growing up of SPMS. In the meantime, I grew up together with SPMS. I still remember that friends and I studied hard in the Math Lab before our exams. I still remember that we can get the lovely goodie exam bags from the SPMS club. What made me feel sweet might not be the donut itself, but the care from our school. I still remember the first day when I visited my beautiful Swiss mentor Professor. Frederique. Without her, I cannot progress so far. And many other professors, such as the big boy Calculus Professor Andrew, MAEC supervisor Professor Wu Guohua, my INSTEP supervisor Professor Dmitrii Pasechnik and etc... I want to use this opportunity to express my appreciation to my professors.



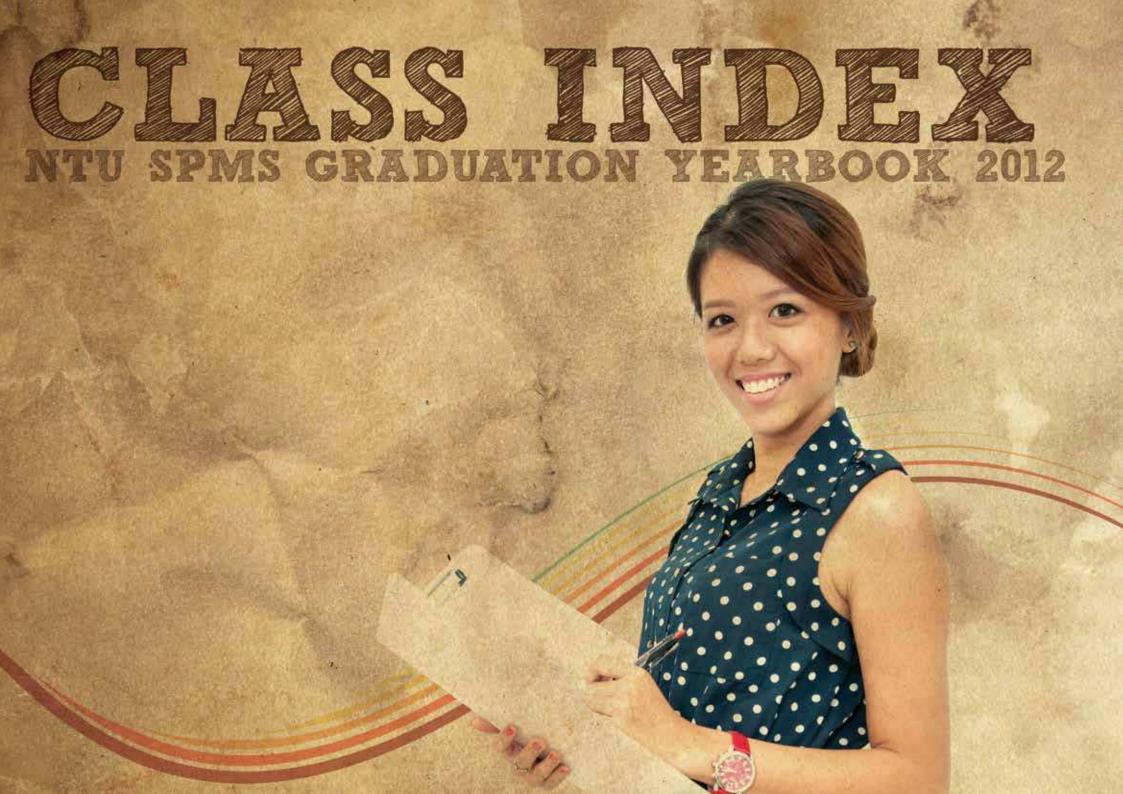
Yeo Kian Boon

I am glad to have known some of the friends here in SPMS, be it during the freshman orientation camp, course curriculum projects or even practical laboratory sessions. 10, 20 years down the road, I hope to maintain the bonds with these friends and reminisce the good old times together. Let us thus shine forth and embrace ourselves in this tough and uncertain economic situation ahead! =)



Yue Mu

As the MAS Representative during my third year, I guided my club members to work with MAS and MAEC faculty members and students, introduced a variety of interesting events and helpful service, and thereby promoted friendship between them. Although the MAS divisional club was still a newly-founded club, I successfully organized the MAS PI DAY Event and the MAS Sharing Session. Thus, I am very proud of myself and I also love my school very much.



CREDITS:

SPMS Club 7th Publications Committee