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## Welcome Speech

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## Welcome Speech from Rector of Syiah Kuala University —

In the name of Allah, the Most Beneficent and the Most Merciful. May peace, mercy, and blessings of Allah be upon you.

Dear colleagues, professors, lecturers, researchers, ladies and gentlemen. On behalf of Syiah Kuala University, I would like to express my sincere gratitude and welcome you to the 8th Annual International Conference (AIC) on Science and Engineering 2018. Moreover, I honorably welcome our keynote and invited speakers Prof. Dr. Ahmad Fauzi Ismail, Universitas Teknologi Malaysia, Malaysia, Prof. Dr. Azman Bin Abd Ghani, University of Malaya, and Prof. Marwan, Syiah Kuala University.

It is my hope that the 8th AIC on Science and Engineering 2018 would be able to achieve its objective in providing an effective forum for academicians, researchers, and practitioners to advancing knowledge, research, and technology for humanity. There has always been a gap between peoples and communities who can make effective use of technology and those who cannot. 'Humanity' (or being 'humane') can also in one usage refer to civil rights and social causes, or in other words to people treating each other with care, compassion, and dignity; respecting the common 'humanity' in the other person. Therefore, despite what we may have been falsely led to believe, matters of 'human' rights have no relation to politics or any part of the so-called political spectrum: they do not belong to any political party or faction, nor to any individual or organization; they are part of our common nature, part of the collective 'humanity' spoken for by our very existence. For that matter, all academicians, researchers, and practitioners should consider humanity things to make a peaceful world. With humanity, we change to the better environment and a better life. We believe knowledge, research and technology for all people, for minorities, people with disabilities, and to help anyone. No matter how much we can accomplish by ourselves, whether it be research or development, it is never sufficient in this world of knowledge. Therefore, the focal drive of this conference is to exchange ideas, and by participating in this exchange, it is hoped that all parties who may benefit from the conference can apply it in managing activities in their areas. It is pleasing to note that the agenda of this conference covers a wide range of interesting topics related to all theoretical and practical aspects, but not limited to Mathematical Sciences, Physics Sciences and Engineering, Chemical Sciences and Engineering, Geology, Mining and Petroleum Engineering, Mechanical and Industrial



Engineering, Civil and Structural Engineering, Architecture and Planning, Electrical and Computer Engineering, Computer Sciences and Information Systems.

Last but not least, my deepest gratitude goes to the Advisory Board, Organizing Committee, International Scientific Committee, institutions, companies, and volunteer who have directly and indirectly supported the success of this seminar. The committee has organized a vibrant scientific program and is working hard to present highly respected and internationally notorious speakers to lead it. Although we try our finest to be professional, on behalf of Syiah Kuala University, please accept our sincere apologies should there be inconveniences that occur before, during, or after the event. I wish you a very productive conference with exciting and encouraging discussions and exchange of knowledge so that together we can anticipate a future of groundbreaking knowledge, research, and technology for humanities.

May God bless us all with good health to make this event a successful and enjoyable one!

Best Regards,

Prof. Dr. Ir. Samsul Rizal, M.Eng  
Rector of Syiah Kuala University



## Welcome Speech from General Chair

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*Assalamualaikum Wa Rahmatullahi Wa Barakatuh,*

On behalf of the organizing committees, I would like to welcome all of you to Banda Aceh, Indonesia for the 8th Annual International Conference (AIC) on Science and Engineering 2018 as a part of the 2018 Annual International Conference (AIC) Syiah Kuala University. The AIC is an annual international conference carried out regularly by Syiah Kuala University since 2011.

Under the theme of the conference "Connecting the World through innovation and sustainable development", this conference features a rich program, including Syiah Kuala University Innovation Expo 2018, a keynote speech delivered by Prof. Dr. Ahmad Fauzi Ismail, Universitas Teknologi Malaysia, Malaysia, and two invited speeches by Prof. Dr. Azman Bin Abd Ghani, University of Malaya, and Prof. Marwan, Syiah Kuala University. The 8th AIC on Science and Engineering 2018 offers a special opportunity to bring together professors, researchers and scholars around the globe, and serves as a platform to deliver innovative research results and latest trends and development in the fields of sciences and engineering.

All accepted and presented papers in this conference will have the opportunities to be published in IOP Material Science and Engineering Proceedings and indexed by Sci-Scopus, Thomson Reuters ISI, and EI Compendex. The conference has received 110 submitted papers, whereby 80 papers have been accepted by the committees for presentation and to be included in the proceedings. These papers on various topics are divided into 10 parallel sessions in the conference. To all members of the organizing committees, the international scientific committee, the reviewers, and the collaboration partners, we would like to thank all of them for their tremendous efforts to organize this conference successfully.

We look forward to having a successful conference, and we hope that all the attendees enjoy and benefit from this conference.

Best Regards,

Dr. Heru Fahlevi  
General Chair