



ERDT

Engineering Research and Development for Technology

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DOST-SEI

7th ERDT Congress

Theme: *The Human Engineer*

CONCEPT NOTE

"The most creative innovations of the digital age came from those who were able to connect the arts and the sciences."¹

People who are able to play along the intersection of humanities and technology breathe life to the digital revolution by bringing true fusion of technology and creative industries such as; design, entertainment, instruction, literature, and the arts. These people are able to link proses to processors, ethos to technology, and splendor to engineering.

For scholars and practitioners to work across existing theoretical and disciplinary gaps, it is important that they understand that a conclusive effort reflects the integration of various factors that influence and contribute towards development.

The 7th ERDT Congress is envisioned to provide a platform for the better understanding of the dynamics between and among engineering, humanities, and social science--- three disciplines with equally important roles in shaping the society.

Although *"we maintain that engineers apply mathematics and science knowledge in their work and that engineering can provide motivating contexts to learn mathematics or science, we posit that engineers navigate a wealth of social science and humanities knowledge and skills in the engineering and design of solutions"*², as well.

Furthermore, numerous examples have illustrated collaboration between social scientists and engineers. For instance, social science proves helpful in addressing macro-ethical engineering issues while engineering contributes significantly in providing technological alternatives that serve as reference for social scientists as they analyze transportation choices, housing patterns, and agricultural productivity.

¹ Isaacson, W., "Why innovation needs both art and science" *World Economic Forum* October 21, 2014, URL. (accessed March 19 2018).

² Hynes, M. and Swenson, J., "The Humanistic Side of Engineering: Considering Social Science and Humanities Dimensions of Engineering in Education and Research" *Journal of Pre-College Engineering Education Research (J-PEER)* Volume 3 Issue 2 (2013): 32-42.

