

ITDI has new deputy director for research



Dr. Christine Marie C. Montesa
Deputy Director, Research and
Development

Dr. Christine Marie Capule Montesa is DOST-ITDI's new Deputy Director for Research and Development.

A local of Quezon City, the 47-year old licensed chemical engineer will be formally sworn in before DOST Secretary Fortunato T. De La Peña on April 15, 2021. Undersecretary for R&D Dr. Rowena Cristina L. Guevara and ITDI Director Dr. Annabelle V. Briones will be standing in as witnesses.

Dr. Montesa received her doctorate degree on materials engineering from Tokyo University and is one of Monbukagakusho (formerly Monbusho Scholarship) student-scholars from 160 countries supported since 1954 by the Japanese Ministry of Education, Culture, Sports, Science and Technology (Monbu-kagaku-shō, or MEXT).

She will be bringing in to the research post her academic background on materials science engineering and experiences on quality service assurance and product development at Intel Technology Philippines, Inc. and Jeol Asia Pte. Ltd. of Singapore. The former manufactures computer and server products, smart phones, processors, and chipsets that are distributed worldwide. The latter designs and manufactures scientific instruments for environmental science, information technology, semiconductor production, biotechnology, and nanotechnology. Their products include transmission electron microscopes, scanning electron microscope, ion beam application equipment, and multi-beam system, among others. Further, her technology transfer and commercialization experience at the UP Manila Technology Transfer and Business Development Office will be most useful.

A generative researcher, below are her more notable works:

M. C. Que, C. M. Montesa, J. A. Sy, 8. Basilia and I. Arellano, "Facile in situ thennolytic growth of ZnS quantum dots in polystyrene matrix from zinc pyrrolidinedithiocarbamate as single source precursor", *Materials Letters* 109 (2013) 1 86-1 89.

C. M. Montesa, N. Shibata and Y. Ikuhara, "TEM Observation of Liquid-Phase Bonded Al/AlN Hetero Interfaces", *J. Mater. Sci.* 46 (2011) 4392-4396.

C. M. Montesa, T. Tohei, N. Shibata, K. Akiyama, Y. Kuromitsu and Y. Ikuhara, "Coincidence of Reciprocal Lattice Point Model For General Orientation Relationships in Hetero Systems", *AMTC Letters* 2 (2010) 36-37.

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- C. M. Montesa, "Thesis: Structures of Metal/Ceramic Hetero Interfaces", Doctor of Philosophy in Materials Engineering, The University of Tokyo, Japan (2010).
- C. M. Montesa, N. Shibata, T. Tohei, K. Akiyama, Y. Kuromitsu and Y. Ikuhara, "Application of Coincidence of Reciprocal Lattice Point Model to Metal/Sapphire Hetero Interfaces", Mater. Sci. Eng. 8 173 (2010) 234-238.
- C. M. Montesa, N. Shibata, S. Y. Choi, H. Tonomura, K. Akiyama, Y. Kuromitsu and Y. Ikuhara, "High-Resolution Transmission Electron Microscopy Observation of Liquid-Phase Bonded Aluminum/Sapphire Interfaces", Mater. Trans. 50 (2009) 1037-1040.
- C. M. Montesa, N. Shibata, H. Tonomura, K. Akiyama, Y. Kuromitsu and Y. Ikuhara, "TEM Observations of Aluminum/Ceramic Interfaces", AMTC Letters 1 (2008) 44-45.
- C. M. Montesa, L. Cada, T. Tarrosa, M. A. Marbella, C. Tiongson and N. Caranto, "Effect of Mold Transfer Parameters on Film Adhesive Void and Delamination for LDI Packaging", Intel Assembly & Test Technology Journal 8 (2005).
- C. M. Montesa, C. Tiongson, F. Hilario, M. Escobido, T. Tarrosa and N. Caranto, "Challenges in Plasma Cleaning of Flex Substrates with High-density Cross-linked Photo-imageable Solder Resists", Intel Assembly & Test Technology Journal 8 (2005).
- C. M. Montesa, "Thesis: Wafer Characterization on Silicon-Based Integrated Circuits", Master of Science in Materials Science and Engineering. University of the Philippines, Philippines (2004).
- C. M. Montesa and C. Tiongson, "Low Profile SCSP Through Shared Interconnects (Package Design)", Intel Defensive Publication (Invention Disclosure), USA (2003).
- C. M. Montesa, "Taper Coiler (Equipment Part Modification)", Intel Defensive Publication (Invention Disclosure), USA (2001).

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