Mechanical Engineering Department
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CURRICULUM VITAE

Name	:	Rianti Dewi Wulansari Sulamet-Ariobimo
Member of Organization	:	1. *Persatuan Insinyur Indonesia* – The Institution of Engineers Indonesia 2. *Himpunan Ahli Pengecoran Indonesia* – Indonesian Foundrymen Society 3. ASM International
Specialties	:	Casting and Heat Treatment of Ductile Iron

Education

1. Mechanical Engineering. Department**,** Faculty of Industrial Technology, Universitas Trisakti
   Research Project Title:
   Teknologi Perlakuan Besi Tuang Cair dan Austemper Besi Tuang Nodular dalam *Fluidized Bed Furnace*
2. Faculty of Engineering and Physical Systems, Central Queensland University
   Thesis Title:
   Austempered Ductile Iron Production Technology from Base Material Produced by Ferro-Casting Industry in Indonesia
3. Mechanical Engineering Department, Faculty of Engineering, Universitas Indonesia
   Dissertation Title:
   Pengecoran *Thin Wall Ductile Iron* sebagai Bahan Baku *Thin Wall Austempered Ductile Iron.*
4. The Professional Engineer Study Program, Faculty of Industrial Technology, Universitas Muslim Indonesia

Awards

1. Finalist for Women in Science from L'Oreal, 2008.
2. Finalist for best paper on Universitas Trisakti Dies Natalis 2012 .
3. International journal paper publication incentive from DIKTI 2013.
4. Best paper for Industrial Engineering Innovation on SINTERIN 2014.
5. Universitas Indonesia Intellectual Property Award 2015.
6. 108 Indonesia Innovation BIC
7 DIIB Granted Paten Categories Award Universitas Indonesia 2016
8 DIIB Registered Paten Categories Award Universitas Indonesia 2016
9 Best Oral Presentation at the 5th International Conference on Material Strength and Applied Mechanics 2022.

Patent

1. Patent No. IDP000039503 *Sistem Pengecoran untuk Pembuatan Plat Besi Tuang Nodular yang Bermatriks Feritis* with Johny Wahyuadi Soedarsono and Tresna Priyana Soemardi.
2. Patent No. IDP000043240 *Suatu Sistem Pengecoran untuk Pembuatan Plat Besi Tuang Nodular yang Bermatriks Perlitis* with Johny Wahyuadi Soedarsono and Tresna Priyana Soemardi.
3. Patent No. IDP000040306 *Suatu Sistem Pengecoran untuk Pembuatan Plat Besi Tuang Nodular dengan Ketebalan 1 mm yang Bermatriks Feritis* with Johny Wahyuadi Soedarsono, Tresna Priyana Soemardi and Bambang Suharno.
4. Patent No. IDP000070457 *Sistem Pengecoran Vertikal Bebasis Saluran Tuang untuk Pembuatan Plat Besi Tuang Nodular yang Bermatriks Perlitis* with Johny Wahyuadi Soedarsono, Donanta Dhaneswara, Bambang Suharno, Novrizon and Yun Gemilang.
5. Patent No. IDP000072035 *Dapur Reduksi Berputar untuk Industri Pengolahan Bijih Besi Skala Mikro* with Johny Wahyuadi Soedarsono and Seto Tjahyono.
6. Patent No. IDP000077182 *Arang Batok Kelapa sebagai Redaktor Karbon Sustainable untuk Pengolahan Bijih Besi Menjadi Iron Nugget* with Johny Wahyuadi Soedarsono, Andi Rustandi, Adji Kawigraha, Amanda Arief Putra, Esaputra Mangarul Rajaguguk, Lian Putra Panuturi Batubara and Libertinus Juan Romualdo.

7. Patent No. IDP000096586 *Sistem Pengecoran Dinding Tipis Besi Tuang Nodular untuk Pembuatan Komponen Batang Piston* with Gregah Yudha Purnama, Muhammad Fadhlan.

Papers

No.	Paper in Journal
1.	Rianti Dewi Sulamet Ariobimo dan Budi Susilowati Rosadi, Peningkatan Mutu Besi Tuang Dengan Teknologi *Liquid dan Solid Treatment*, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 2 No. 2, Mei 2000, ISSN 1411-1330.
2.	Rianti Dewi Sulamet Ariobimo dan Budi Susilowati Rosadi, *Fluidized Bed Furnace* Untuk Proses Perlakuan Panas, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 2 No. 2, Mei 2000, ISSN 1411-1330.
3.	Rianti Dewi Sulamet Ariobimo, Restrukturisasi Kekerasan Baja Dengan Proses *Annealing*, Jurnal Ilmiah Teknik Mesin dan Teknologi Manufaktur "POROS"; Vol 3 No. 3 Juli 2000, ISSN 1410-6841.
4.	Triyono dan Rianti Dewi Sulamet Ariobimo, Proses Pengerasan Melalui *Aging* Pada Aluminium, Jurnal Ilmiah Teknik Mesin dan Teknologi Manufaktur "POROS"; Vol 3 No. 3 Juli 2000, ISSN 1410-6841.
5.	Rianti Dewi Sulamet Ariobimo dan Budi Susilowati Rosadi, Struktur Mikro ADI, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 2 No, 3, Oktober 2000, ISSN 1411-1330.
6.	Rianti Dewi Sulamet Ariobimo dan Budi Susilowati Rosadi, Albasia Sebagai Pengganti Merang Untuk Bahan Baku Pembuatan Kertas, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 2 No. 3, Oktober 2000, ISSN 1411-1330.
7.	Rianti Dewi Sulamet Ariobimo, Galvanisasi Celup sebagai Suatu Upaya Mengatasi Korosi pada Baja, Jurnal Ilmiah Teknik Mesin dan Teknologi Manufaktur "POROS"; Vol. 3 No. 4 Oktober 2000, ISSN 1410-6841.
8.	Rianti Dewi Sulamet Ariobimo, Pengaruh Suhu *Pouring* pada Proses Pembuatan Besi Tuang Nodular, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 3 No. 1, Januari 2001, ISSN 1411-1330.
9.	Rianti Dewi Sulamet Ariobimo, Pengaruh Media Sementasi terhadap Peningkatan Kadar Karbon Pada Baja ASSAB 760, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 3 No. 2, Mei 2001, ISSN 1411-1330.
10.	Rianti Dewi Sulamet Ariobimo, Pengaruh Suhu Austenisasi Proses *Hardening* pada Baja Thysen-Thyrodur 1730, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 4 No. 3, Oktober 2002, ISSN 1411-1330, Akreditasi No. 02/Dikti/Kep/2002.
11.	Rianti Dewi Sulamet Ariobimo, Pengaruh Proses *Tempering* terhadap Kelompok Baja Thysen, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 5 No. 2, Mei 2003, ISSN 1411-1330, Akreditasi No. 02/Dikti/Kep/2002.
12.	Rianti Dewi Sulamet Ariobimo, Pengaruh Media Pendingin terhadap Baja DIN 1.2367, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 6 No. 1, Januari 2004, ISSN 1411-1330, Akreditasi No. 02/Dikti/Kep/2002.
13.	Rianti Dewi Sulamet Ariobimo, Pengaruh gaya pada nilai keras Brinell, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 4 No. 2, Mei 2004, ISSN 1411-1330, Akreditasi No. 02/Dikti/Kep/2002.
14.	Rianti Dewi Sulamet Ariobimo, Perbandingan Penggunaan Tembaga dengan Molybdenum pada Sifat Tarik dan Sifat Keras Besi Tuang Kelabu, Jurnal Ilmiah Teknik Mesin "MESIN" Vol. 7 No. 1, Januari 2005, ISSN 1411-1330, Akreditasi No. 39/Dikti/Kep/2004.
15.	Rianti Dewi Sulamet Ariobimo, Pengaruh Suhu *Tempering* terhadap SKD 11 Mod, Jurnal Teknik Mesin "MESIN", Vol. 8 No. 3, Oktober 2006, ISSN 1411-1330, Akreditasi No. 02/Dikti/Kep/2006.
16.	Rianti Dewi Sulamet Ariobimo, Perbandingan Karakteristik SKD 11 Mod terhadap SKD 11, Jurnal Teknik Mesin "MESIN", Vol. 9 No. 1, Januari 2007, ISSN 1411-1330, Akreditasi No. 02/Dikti/Kep/2006.
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19.	Bambang Suharno, Johny W. Soedarsono, Tresna P. Soemardi, Rianti D. Sulamet-Ariobimo, *The Effects of Plates Position in Vertical Casting Producing Thin Wall Ductile Iron,* Advance Material Research QIR 12, Vol. 277, 2011, pp. 66-75, https://doi.org/10.4028/www.scientific.net/AMR.277.66
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28. Johny Wahyuadi Soedarsono, Adji Kawigraha, Rianti Dewi Sulamet-Ariobimo, M. Amril Asy'ari, Andre Yosi, Eko Mulia Putra, *The Influence of Coal and Reduction Process Parameters in Producing Iron Nugget,* Advanced Materials Research, Vols. 789, 2013, pp. 517-521, https://doi.org/10.4028/www.scientific.net/AMR.887-888.281
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35. Johny Wahyuadi Soedarsono, Andi Rustandi, Yudha Pratesa, Rianti Dewi Sulamet-Ariobimo, Bagus Hadi Prabowo, Jones Sahat Exsaudy, *The Effect of Reduction Parameter to Composite Pelet of Iron Ore and Coal Using Single Conveyor Belt Hearth Furnace*, Applied Mechanics and Materials, Vols. 842, 2016, pp.115-119, https://doi.org/10.4028/www.scientific.net/AMM.842.115
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37 Rianti Dewi Sulamet-Ariobimo, Yun Gemilang, Dhonanta Dhaneswara, Johny Wahyuadi Soedarsono, Bambang Suharno, Casting Design Modification to Improve Casting Yield in Producing Thin Wall Ductile Iron Plate, Advanced Materials Research QiR 15 Vol. 929, https://doi.org/10.4028/www.scientific.net/MSF.929.10
38 Johny Wahyuadi Soedarsono, Andi Rustandi, Yudha Pratesa, Rianti Dewi Sulamet-Ariobimo, Bagus Hadi Prabowo, Jones Sahat Exsaudy, The Effect of Reduction Parameter to Composite Pellet of Iron Ore and Coal Using Single Conveyor Belt Hearth Furnace, Applied Mechanics and Materials, Vols. 842, 2016, pp.115-119, https://doi.org/10.4028/www.scientific.net/AMM.842.115
39 R.D. Sulamet-Ariobimo, M. Fadhlan, Y. Oktaviano, T. Sukarnoto, Y. Mujalis, A. Witonohadi, The Effects of I-Beam Thickness to Microstructure and Compression Load of Thin Wall Ductile Iron Connecting Rod, International Journal of Lightweight Materials and Manufacture, https://doi.org/10.1016/j.ijlmm.2023.01.001.

40 Kekuatan Lelah Ductile Iron Thin Wall Connecting Rod Vespa Px-150, Y Oktaviano, M Fadhlan, RD Sulamet-Ariobimo Y Oktaviano, M Fadhlan, RD Sulamet-Ariobimo POROS 19 (1), 44-52, 2023.

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2.	Rianti Dewi Sulamet Ariobimo, Rancangan Penelitian Proses pembuatan ADI-TWC, Proceeding SNTI 2008, 2008, Jakarta, Indonesia: FTI Usakti.
3.	Johny Wahyuadi Soedarsono, Tresna Priyana Soemardi, Rianti Dewi Sulamet Ariobimo, Pengaruh Kecepatan Pendinginan terhadap Pembentukan Grafit Nodular, Proceeding Seminar Nasional KRTM, 2009, Solo, Indonesia: JTM Universitas 11 Maret.
4.	Johny Wahyuadi Soedarsono, Bambang Suharno, Rianti Dewi Sulamet Ariobimo, Pengaruh Kecepatan Pendinginan terhadap Pembentukan Lapisan Kulit pada TWDI, Proceeding Seminar Strategis Nasional Hasil Penelitian Dosen Perguruan Tinggi, 2009, Depok, Indonesia: PNJ.
5.	Johny Wahyuadi Soedarsono, Bambang Suharno, Rianti Dewi Sulamet Ariobimo, Pengaruh Proses Austempering terhadap Struktur Mikro Plat Tipis Besi Tuang Nodular, Proceeding Seminar Nasional Hasil Penelitian dan Pengabdian Kepada Masyarakat (SNP2M), 2010, Depok, Indonesia: PNJ.
6.	Johny Wahyuadi Soedarsono, Bambang Suharno, Rianti Dewi Sulamet Ariobimo, Pengaruh Waktu Tahan Pouring terhadap Struktur Mikro Plat Tipis Besi Tuang Nodular, Proceeding Seminar Nasional Hasil Penelitian dan Pengabdian Kepada Masyarakat (SNP2M), 2011, Depok, Indonesia: PNJ.
7.	Rianti Dewi Sulamet-Ariobimo, Johny Wahyuadi Soedarsono, Bambang Suharno, Pengaruh Waktu Tahan *Pouring* terhadap Struktur Mikro Plat TWDI 1 mm, Proceeding Seminar Nasional AVoER ke 3, 2011, Palembang, Indonesia: Fakultas Teknik Universitas Sriwijaya.
8.	Tresna Priyana Soemardi, Johny Wahyuadi Soedarsono, Rianti Dewi Sulamet-Ariobimo, *The Role of Casting Flow and Solidification Simulation for the Improvement of Thin Wall Ductile Iron*, Proceeding International Symposium on Transport Phenomena 22, 2011, Delft, Belanda: Delft University of Technology.
9.	Rianti Dewi Sulamet-Ariobimo dan Johny Wahyuadi Soedarsono, Pengaruh Waktu Tahan *Pouring* dan Desain Pengecoran terhadap Karakteristik Grafit Nodul TWDI, Prosiding Seminar Nasional Teknologi Industri 2012, 2012, Jakarta, Indonesia: Fakultas Teknologi Industri Universitas Trisakti.
10.	Johny Wahyuadi Soedarsono, Andi Rustandi, Rendi Fajar Binuwara, Rianti Dewi Sulamet-Ariobimo, Pengaruh Proses Penuaan Terhadap Ketahanan Korosi Alclad 2014, Prosiding Seminar Nasional Material dan Metalurgi V, 2012, Surabaya, Indonesia: Jurusan Teknik Material dan Metalurgi Fakultas Teknologi Industri Institut Teknologi Sepuluh November Surabaya.
11.	Rianti Dewi Sulamet-Ariobimo dan Johny Wahyuadi Soedarsono, Pengaruh Desain Tangga Vertikal terhadap Karakteristik Grafit TWDI, Prosiding Seminar Nasional Material dan Metalurgi V, 2012, Surabaya, Indonesia: Jurusan Teknik Material dan Metalurgi Fakultas Teknologi Industri Institut Teknologi Sepuluh November Surabaya.
12.	Rosfian Arsyah Dahar Dt. Simarajo dan Rianti Dewi Sulamet-Ariobimo, Kemungkinan Pendirian Tanur Tiup Rendah dan Pabrik Besi *Nugget* di Sumatera Barat, Prosiding Seminar Inovasi Teknologi dan Rekayasa Industri, 2013, Padang, Indonesia: Jurusan Teknik Mesin Universitas Andalas.
13.	Rianti Dewi Sulamet-Ariobimo, Johny Wahyuadi Soedarsono, Bambang Suharno, Pengaruh Keberadaan Lapisan Kulit terhadap Kekuatan Tarik *Thin Wall Ductile Iron*, Prosiding Seminar Nasional Metalurgi Material, 2013, Depok, Indonesia: Fakultas Teknik Universitas Indonesia.
14.	Rianti Dewi Sulamet-Ariobimo, Johny Wahyuadi Soedarsono, Tono Sukarnoto, *Effect of JIS Z2201-13(B) and Z2201-4 to Tensile Properties of Thin Wall Ductile Iron*, Prosiding Seminar Nasional Metalurgi Material, 2013, Depok, Indonesia: Fakultas Teknik Universitas Indonesia.

15. Budi Hartono dan Rianti Dewi Sulamet-Ariobimo, Pengaruh Komposisi Kimia terhadap Penggunaan Goa Sebagai Material Pengganti SKD11, Proceeding Seminar Nasional Teknik Mesin Universitas Trisakti 2014, 2014, Jakarta, Indonesia: Jurusan Teknik Mesin Fakultas Teknologi Industri Universitas Trisakti.
16. Rosfian Arsyah Dahar Dt. Simarajo dan Rianti Dewi Sulamet-Ariobimo, Kemungkinan Pembangunan Industri Besi-Baja di Papua, Proceeding Seminar Inovasi Teknologi dan Rekayasa Industri 2014, 2014, Padang, Indonesia: Jurusan Teknik Mesin Universitas Andalas.
17. Yusep Mujalis, Yosca Octaviano, Benny Siantury, Tono Sukarnoto, Rosfian Arsyah Dahar Dt. Simarajo dan Rianti Dewi Sulamet-Ariobimo, Perancangan Tungku Peleburan Logam Buatan Sendiri, Proceeding Seminar Inovasi Teknologi dan Rekayasa Industri 2014, 2014, Padang, Indonesia: Jurusan Teknik Mesin Universitas Andalas.
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19. Rianti Dewi Sulamet-Ariobimo, Johny Wahyuadi Soedarsono, Yusep Mujalis, Tono Sukarnoto, Andi Rustandi, Dody Prayitno, Analisa Pengaruh Bentuk Benda Uji Tarik terhadap Kekuatan Tarik UNS S20100, Prosiding Seminar Nasional Material dan Metalurgi VIII, 2015, Yogyakarta, Indonesia: Fakultas Teknik Universitas Gadjah Mada.
20. Rianti Dewi Sulamet-Ariobimo, Gregah Yudha, Yoska Oktaviano, Yusep Mujalis, Tono Sukarnoto, Penerapan Teknologi Pengecoran Dinding Tipis pada Batang Piston, Prosiding Seminar Nasional Material dan Metalurgi IX, 2016, Banten, Indonesia: Fakultas Teknik Universitas Sultan Ageng Tirtayasa
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22. Rianti Sulamet-Ariobimo, Gregah Yudha, Tono Sukarnoto, Yusep Mujalis and Yoska Oktaviano, Thin Wall Austempered Ductile Iron Connecting Rod for Lighter Automotive Component – Production of Thin Wall Ductile Iron Connecting Rod, The 23rd Small Engine Technology Conference 2017, Jakarta, Indonesia: SAE Internasional, https://www.sae.org/publications/technical-papers/content/2017-32-0125/
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Book

No.	Book Chapter
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Jakarta, 21st of September 2025

Rianti Dewi Wulansari Sulamet-Ariobimo