Saleh Breik Abusuilik, PhD

Tel: ++962799402344, E-mail: sabusuilik@zu.edu.jo, salehbreik2015@gmail.com

PERSONAL INFORMATION

Marital Status: Married
Nationality: Jordanian
Place of Birth: Zarqa-Jordan
Date of Birth: August 5, 1973

EDUCATION

2008 Doctor of Philosophy in Materials Creation Engineering
Shimane University, Matsue-Japan
Thesis: Surface Engineering of Gamma Titanium Aluminide: Oxidation Resistant and CVD Diamond Coatings
Scholastic Evaluation: Excellent

2005 Master of Science and Engineering in Material Science/Structures and Properties of Materials
Shimane University, Matsue-Japan
Thesis: Microwave Plasma Enhanced Chemical Vapor Deposition of Carbon films: Preparation and Characterization
Scholastic Evaluation: Excellent

2001 Bachelor of Science in Production and Machines Engineering
Al-Balqa Applied University, Tafila Applied University College, Tafila-Jordan
Thesis: Effect of Diamond Pressing on the State of Alloy Steel Surfaces
Scholastic Evaluation: GPA 3.4/4.0 Very Good (ranked top student in 2001 class)

1993 Associate Engineering Diploma in Production and Machine Tools
Amman University College for Applied Engineering
Scholastic Evaluation: Very Good
(Ranked 3rd student in Community Colleges Examination)

ACADEMIC EXPERIENCE

- Zarqa University, Jordan, March 2022-Present

Assistant Professor

Faculty of Engineering Technology, Mechanical Engineering Department

Teaching materials and manufacturing-related courses for undergraduate students.

Courses Taught

-Materials Science and Engineering

-Manufacturing Processes

-Maintenance Management

-Fluid Mechanics
-Engineering Measurements and Instrumentation
-Engineering Drawing
-Dynamics and Vibration Laboratory
-Special topics in Mechanical Engineering: Reverse Engineering
-Special topics in Mechanical Engineering: Surface Engineering
-Graduation Project (1)
-Graduation Project (2)

● Zarqa University, Jordan, September 2022-Present

Department Head

Faculty of Engineering Technology, Mechanical Engineering Department

Leading department activities, including administration, students advisory, curriculum development, industry engagement, and accreditation and compliance.

PROFESSIONAL EXPERIENCE

● Jitawi Center for Consulting & Training, Amman-Jordan, Sept. 2020-Feb. 2022

Technical and Business Consultant

Jitawi Center for Consulting & Training

Main activities and responsibilities

-Designing, preparing, and conducting special-purpose training courses in engineering and management subjects, including manufacturing processes, quality control, materials engineering, standardization (ISO, quality, safety, and environment), and business management

-launching new training and consulting programs on KAIZEN[*1] (continuous improvement) for industrial and business. Implementing KIAZEN strategies and practices for better productivity in industrial and business fields. [*1]KAIZEN: A Japanese business philosophy focuses on continuous improvement and changing for better working practices and productivity

-Conducting environment-related training courses such as Environmental Awareness, and Hazardous Wastes and Pollution Prevention. Waste management, littering prevention, and recycling topics were discussed in these courses

● Hitachi Metals, Ltd. Shimane-Japan, April 2008-March 2020

1. General Manager

Yasugi Works, Solution and Engineering Center

June 2018-March 2020

Main activities and responsibilities

-Managed production and R&D activities (coatings, tool steels, and CAE solutions) of the center, including technical support, quality, safety, and operational costs

-Managed auditions, including ISO (quality and environment), engineering, wastes recycling and recycling, and safety

-Launched new research and development projects based on customers' needs
-Supported overseas PVD (Physical Vapor Deposition) coating branches and conducted technical and quality auditions
-Formulated and implemented center's policies and growth strategies
-Regulated and monitored center's compliance with environmental guidelines set by ISO14001 and Environment Management System
-Certified for management and handling of the Hazardous Materials and its wastes
-Managed regular production, R&D, financial reports, and environment activities report of the center. Approved budgets, production plans, R&D plans, upcycling and recycling activities, and maintenance plans
-Hiring new employees and supervised their education and training
-Approved technical reports and presentations of the center
-Leaded customer service by representing the center and giving presentations
-Headed the Safety Incidents/Accident Investigation Committee, approved its reports, and followed up the activities to ensure accident prevention

2. Group Manager

Yasugi Works, Solution and Engineering Center, Surface Modification Group

May 2016-May 2018

Main activities and responsibilities

-Managed and leaded a coating production group (PVD and PECVD), including technical support, quality, safety, environment, and operational costs
-Managed and implemented standard procedures of ISO (quality, safety, and environment)
-Managed and supervised group's compliance with environmental guidelines set by ISO14001 and Environment Management System
-Launched a new DLC (Diamond-like Carbon) coating business in Taiwan and trained manufacturing and sales employees
-Hiring new employees and supervised their education and training
-Supported overseas coating branches and conducted technical and quality auditions
-Approved technical reports and presentations of the production group
-Implemented production group's policies and growth strategies
-Prepared production and quality reports, financial reports, and production budgets

3. Senior Engineer

Yasugi Works, Solution and Engineering Center, Surface Modification Group

October 2015-April 2016

Main activities and responsibilities

-Modified and redesigned coating recipes and processes (PVD and PECVD) for better adhesion and performance
-Prepared manufacturing process sheets and QC charts of PVD coatings
-Followed patents registration and conference presentation of previous work and development activities.
-Conducted failure analyses, including coatings, tool steels, and PVD systems
-Implemented standard procedures of ISO (quality, safety, and environment)
-Implemented, supervised, and reported about environmental activities in accordance with

ISO14001 and Environment Management System.

-Prepared technical reports and presentations, communicated to customers and internal project members

-Trained and educated new employees

-Prepared and supervised maintenance programs of coating systems and machineries

-Observed budgets and expenditures of operation and maintenance

-Member of the Safety and Health Central Committee, where all departments' incidents/accident investigation reports discussed and approved.

-Practiced and leaded the activities of handling, recycling, and disposal of waste materials including hazardous materials of the surface treatment (manufacturing) group.

-Certified for application of safety standards in dusty and/or oxygen-deficient Environments

4. Research and Development Engineer

Yasugi Works and Metallurgical Research Laboratory

April 2008-September 2015

Main activities and responsibilities

-Conducted research and development of PVD ceramic and DLC coatings for forming tools and machine components applications

-Developed corrosion-resistant nitride coatings for machine components and die casting applications

-Developed a series of hydrogen-free DLC coatings for precision forming tools

-Compiled and filled more than 15 patent applications and followed their registration

-Presented about hard coatings in many domestic and international conferences and journals

-Developed and modified PVD coating systems and hardware for better performance

-Experienced many types of PVD coating systems and hardware (arc evaporation, sputtering, FAD, HiPIMS, Nitriding), including operation, maintenance, quality, and safety

-Leaded an international joint development project to develop nitride-based HiPIMS coating for cutting tools

-Practiced standard procedures of laboratory safety in coatings systems, testing equipment's, and experimental procedures

-Compiled and registered laboratory safety procedures for new materials and chemicals

-Joined industry-academia research projects on hydrogen-free DLC coatings

-Joined Environment Committees and reported regularly about environmental activities at R&D and manufacturing sections

-Practiced handling, disposal, and recycling of wastes including hazardous materials during research and development activities

● Electricity Distribution Company, Jordan, October 1993-April 2005

1. Mechanical Engineer

Administrative Affairs Department, Logistic Section

July 2002-April 2005

Main activities and responsibilities

-Managed and supervised maintenance activities of automobiles and equipment

-Prepared and designed maintenance programs of automobiles and general machineries
-Supported and supervised internal logistics
-Joined purchase committee and prepared technical reports for the committee
-On-leave for graduate study from October 2002 to April 2005

2. General Mechanic Technician and Trainee

Production Department and Administrative Affairs Department

October 1993-June 2002

Main activities and responsibilities

-Manufactured machine components and parts using machine tools (turning and milling)
-Rebuilt and repaired machine components applying arc welding, thermal spray, and machining
-Experienced mechanical maintenance of pumps, turbines, and general machineries
-Practiced arc welding of mechanical structures

RESEARCH INTERESTS

Synthesis and characterization of ceramic coatings and carbon-based DLC coatings; manufacturing processes of hard coatings and molding tools; cutting tools and machining; synthesis and applications of ceramics; surface engineering and its manufacturing processes; Continuous improvement "KAIZEN"; Environmental awareness; Wastes recycling and preventing littering. Energy storage materials.

PUBLICATIONS AND PRESENTATIONS

● Peer-Reviewed Journal Publications

1. **Saleh Abusuilik** and Kenichi Inoue, "Development of Hydrogen-free ta-C Coatings for Precision Forming Tools" *Hitachi Metals Technical Review*, Vol. 34, pp. 8-17 (2018) (in Japanese)
2. **Saleh Abusuilik**, "Pre-, Intermediate, and Post-treatment of Hard Coatings to Improve Their Performance for Forming and Cutting Tools" *Surface and Coatings Technology*, Vol. 284, pp. 384-395 (2015)
3. **Saleh Abusuilik** and Kenichi Inoue, "Effects of Intermediate Surface Treatments on Corrosion Resistance of PVD Hard Coatings" *Surface and Coatings Technology*, Vol. 237, pp. 421-428 (2013)
4. **Saleh Abu suilik**, Masayuki Ohshima, Toshimitsu Tetsui, and Kazuhiro Hasezaki, "Preparation of CVD Diamond Coatings on Gamma Titanium Aluminide Using MPECVD with Various Interlayers" *Vacuum*, Vol. 82, pp. 1325-1331 (2008)
5. **Saleh Abu suilik**, Masayuki Ohshima, Toshimitsu Tetsui, and Kazuhiro Hasezaki, "Protective Coating of Gamma Titanium Aluminide at High Temperatures Using Niobium Disilicide" *Transactions of the Materials Research Society of Japan*, Vol. 33, No.2, pp. 335-338 (2008)
6. **Saleh Abu suilik**, Ken Takeshita, Hiroyuki Kitagawa, Toshimitsu Tetsui, and Kazuhiro Hasezaki, "Preparation and High temperature Oxidation Behavior of Refractory Disilicide Coatings for γ-TiAl Intermetallic Compounds" *Intermetallics*, Vol. 15, pp. 1084-1090 (2007)
7. **Saleh Abu suilik**, D. Shimamoto, H. Kitagawa, K. Hasezaki, Y. Noda, "Experimental study of nucleation and quality of CVD diamond adopting two-step deposition approach using

MPECVD" *Diamond and Related Materials*, Vol.15, pp. 1765-1772 (2006)

8. **Saleh Abu suilik**, Yoshinori Toyama, Hiroyuki Kitagawa, Kazuhiro Hasezaki, and Yasutoshi Noda, "Deposition of Diamond Films on Mild Steel Substrates Using MPECVD Technique" *Functionally Graded Materials Forum of Japan*, Vol. 19, pp. 61-66 (2005)

● Patents

1. **Saleh Abusuilik**, Takeshi Ishikawa, and Kenichi Inoue, "Process for Production of Coated Article Having Excellent Corrosion Resistance and Coated Article" **Japan Patent No. JP 5498572 B2**, issued March 14, 2014. International Publication No. WO/2011/125657/A1
2. **Saleh Abusuilik**, Takeshi Ishikawa, and Kenichi Inoue, "Method for Producing Coated Article Excellent in Corrosion Resistance and Coated Article" **Japan Patent No. JP2013082987A**, issued May 9, 2013 (**JP5892414B2**, issued March 23, 2016)
3. **Saleh Abusuilik**, Takeshi Ishikawa, and Kenichi Inoue, "Corrosion Resistant Coated Article and its Manufacturing Method" **Japan Patent No. JP2013227640A**, issued November 7, 2013 (**JP 5988144 B2**, issued August 19, 2016)
4. **Saleh Abusuilik**, "Method for Manufacturing Coated Mold for Die Casting" **Japan Patent No. JP 6274317 B2**, issued January 19, 2018. International Publication No. WO/2016/027832/A1
5. **Saleh Abusuilik**, and Kenichi Inoue, "Method for Producing a Coated Tool" **Japan Patent No. JP 6103040 B2**, issued March 10, 2017. International Publication No. WO/2014/157560/A1
6. **Saleh Abusuilik**, and Kenichi Inoue, "Coated Tool" **Japan Patent No. JP 6337944 B2**, issued May 18, 2018
7. **Saleh Abusuilik**, and Kenichi Inoue, "Coated Tool and Method for Producing the Same Coated Tool" **Taiwan Patent No. TW I616544 B**, issued March 1, 2018
8. **Saleh Abusuilik**, "Method for Manufacturing a Coated Tool" **Japan Patent No. JP 6308298 B2**, issued May 18, 2018. International Publication No. WO201617375A1
9. **Saleh Abusuilik, "**Method for Manufacturing a Coated Tool" **Taiwan Patent No. TW I557257 B**, issued November 11, 2016
10. **Saleh Abusuilik** and Kenichi Inoue, "Manufacturing Method of Coating Tool" **Japan Patent No. JP2015193913A**, issued November 5, 2015 (**JP 6528936 B2**, issued May 24, 2019)
11. Tomoya Sasaki, Shuho Koseki, Kana Morishita, **Saleh Abusuilik**, Kenichi Inoue, Denis Kurapov, and Wolfgang Kalss, "Coated Cutting Tool" **Japan Patent No.** JP 6362003 B2, issued July 6, 2018. International Publication No. WO/2017/170536/A1
12. Tomoya Sasaki, Shuho Koseki, Kana Morishita, **Saleh Abusuilik**, Kenichi Inoue, Denis Kurapov, and Wolfgang Kalss, Arndt Mirjam, and Stein Sebastian "Method for Manufacturing Coated Tool" **Japan Patent No. JP2016084505A**, issued May 9, 2016 (**JP 6463078 B2**, issued Jan. 11, 2019)
13. Denis Kurapov, Tomoya Sasaki, Shuho Koseki, Kana Morishita, **Saleh Abusuilik**, and Kenichi Inoue, "Method for Producing a Double-layer Coated Cutting Tool with Improved Wear Resistance" **Japan Patent Publication No. JP 207-529459 A**, publication date Oct. 5, 2018. International Publication No. WO/2016/042072/A1
14. Denis Kurapov, Tomoya Sasaki, Shuho Koseki, Kana Morishita, **Saleh Abusuilik**, and Kenichi Inoue, "Method for Producing a Double-layer Coated Cutting Tool with Improved Wear Resistance" **United States Patent No. US 10626493 B2**, issued April 21, 2020

15. Denis Kurapov, Tomoya Sasaki, Shuho Koseki, Kana Morishita, **Saleh Abusuilik**, and Kenichi Inoue, “Method for Producing a Double-layer Coated Cutting Tool with Improved Wear Resistance” European Patent Publication No. **EP 3212819 A1**, publication date Sept. 6, 2017

● Other Journals and Proceedings Publications

1. Yasaman Moravej, Reza Boostani, **Saleh Abusuilik**, and Ibrahim M. Mansour, “The Design of The Logarithmic Detector in The Front-End Board of Sonography Systems” 2022 International Engineering Conference on Electrical, Energy, and Artificial Intelligence (EICEEAI), Published by IEEE.
2. Kana Morishita, Shuho Koseki, Tatsuya Shoji, and **Saleh Abusuilik**, “PVD Coating for Die-casting Molds Tribec SC” *Proceedings of the 33rd Die and Mold Technology Engineers Conference*, *Die and Mold Technology*, Vol. 34, No.7, pp. 26-28 (2019) (in Japanese)
3. Yoshiyuki Murayama, **Saleh Abusuilik**, and Seiji Ito, “Performance Improvement of Die-casting Core Pin using VN-based PVD Tribec Kagari Coating” *Proceedings of the 32nd Die and Mold Technology Engineers Conference*, *Die and Mold Technology*, Vol. 32, No.7, pp. 136-137 (2018) (in Japanese)
4. **Saleh Abusuilik**, “Application of Non-hydrogenated DLC Coatings for Precision Forming Tools” *Tribology*, Vol. 28, No. 322, pp. 26-28 (2014) (in Japanese)
5. **Saleh Abusuilik**, “Application of PVD Hard Coatings for Forming Tools” *Mechanical Surface Technology*, Vol. 13, pp. 27-29 (2013) (in Japanese)
6. Tomoya Sasaki, **Saleh Abusuilik**, and Kenichi Inoue, “Deposition and Characterization of TiAlN Coatings Prepared by High Power Impulse Magnetron Sputtering” *Proceedings of the 13th International Symposium on Sputtering and Plasma Processes*, pp. 37-40 (2013)
7. M. Hosoo, H. Tanoue, Y. Suda, H. Takikawa, M. Kamiya, M. Taki, Y. Hasegawa, N. Tsuji, and **S. Abusuilik,** “Dry Cutting Evaluation of Aluminum Using Super DLC-Coated Tools” *Proceedings of the 128th Conference of Surface Finishing Society of Japan*, Vol. 128, pp.138 (2013) (in Japanese)
8. M. Hosoo, H. Tanoue, Y. Suda, H. Takikawa, M. Kamiya, M. Taki, Y. Hasegawa, N. Tsuji, and **S. Abusuilik**, “Film Thickness Control of Super DLC Films by In-situ Monitoring of Film Reflection” Extended abstract at the 74th *Conference of Japan Society of Applied Physics*, *Autumn Meeting 2013*, pp. 17B-D1-1 (2013) (in Japanese)
9. H. Tanoue, T. Kadoguchi, Y. Suda, H. Takikawa, M. Kamiya, M. Taki, Y. Hasegawa, N. Tsuji, and **S. Abusuilik**, “TDS Analysis of Hydrogenated (ta-C:H and a-C:H) DLC Coatings” Extended abstract *at the 60th Conference of Japan Society of Applied Physics, Spring Meeting 2013*, pp. 28A-A6-7 (2013) (in Japanese)
10. Y. Morita, H. Tanoue, Y. Suda, H. Takikawa, M. Kamiya, M. Taki, Y. Hasegawa, N. Tsuji, and **S. Abusuilik**, “Increase in Preparation Rate of Hydeogen-free DLC films on Bottom of Narrow Hole” Extended abstract *at the 60th Conference of Japan Society of Applied Physics*, Autumn Meeting 2013, pp. 28A-A6-6 (2013) (in Japanese)
11. **Saleh Abusuilik**, “High Corrosion-resistant PVD Tribec PX Coatings” *Die and Mold Technology*, Vol. 72, No.2, pp. 57-59 (2012) (in Japanese)

● Invited Talks

1. “Recent Practical Applications of DLC and Nitride Hard Coatings”, presented at the 10th

Surface Treatment Technology Seminar, Hitachi Academy, Tokyo, Japan (July 2019)
2. "Recent Applications of Nitride Hard coatings and DLC Coatings", presented at the 26th Surface Treatment Technology Committee Meeting of the 2019 Industrial Technology Cooperation and Promotion Meeting, Yonago, Japan (May 2019)
3. "Performance Improvement of Die-casting Molds using AlCrVN-based Tribec Kagari Coating" presented at the 17th Die-casting Research Meeting of Japan Foundry Engineering Society, Tokyo, Japan (July 2018)
4. "Pre-, intermediate and post-treatment of hard coatings for better performances" presented at 42nd International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2015), San Diego, USA (April 2015)
5. "Application of Non-hydrogenated DLC Coatings for Precision Forming Tools of Non-ferrous Metals" Presented at the 7th Joint Meeting of Tribo-Coating Technical Society and Dry-Coating Research Society, Tokyo, Japan (October 2014)
6. "Corrosion Resistance of CrN-based Hard Coatings Deposited by Cathodic Arc Physical Vapor Deposition for Precision Components" presented at the 9th International Materials Technology Conference and Exhibition (The International Symposium on Corrosion and Materials Degradation) (IMTCE-ISCMD 2014), Kuala lumpur, Malaysia (May 2014)
7. "Application of DLC Coatings for Plastic Forming Tools of Aluminum" presented at the 72nd Plastic Forming Meeting of Tokai Branch, Japan Society for Technology of Plasticity, Nagoya, Japan (July 2013)
8. "Characterization of Hard Coatings Deposited by HiPIMS System and their Cutting Performance" presented the 144th Research Meeting of Sputtering and Plasma Processes, Vacuum Society of Japan, Tokyo, Japan (November 2012)

● Presentations

1. "Tribological and Adhesion Properties of Tetrahedral Amorphous Carbon Coatings for Forming Tools", presented at the 10th Asian-European International Conference on Plasma Surface Engineering, Diju, Korea (September 2015)
2. "Hydrogen-free Tetrahedral Amorphous Diamond-like Carbon Coatings for Forming and Cutting Tools", presented at the 15th International Conference on Plasma Surface Engineering, Garmisch-Partenkirchen, Germany (October 2014)
3. "Effects of Intermediate Surface Treatments on Corrosion Resistance of PVD Hard Coatings" presented at the 40th International Conference on Metallurgical Coatings and Thin Films (ICMCTF 2013), San Diego, USA (April 2013)
4. "Deposition and Characterization of TiAlN Coatings Prepared by High Power Impulse Magnetron Sputtering" *The 13th International Symposium on Sputtering and Plasma Processes*, Kyoto, Japan (July 2013)

TRAINING AND SHORT COURSES ATTENDED

1. Use of modern teaching methods and educational technology in teaching and learning for practicing academic profession, 30 hours course August 3-7, 2022, Jordan University, Amman-Jordan.
2. ICDL course, July 20-September 2, 2022, conducted by BILI Academy, Amman-Jordan.
3. Training of Trainers (TOT), completed on December 23, 2021, Make Business Academy, TOT program is approved by Entrepreneurship and Business University.
4. Online program to prepare leaders TOT, Three Levels: June-November 2021, University of

Scientists IUST, Egypt

5. Training of Trainers (TOT), 80 hours course completed on August 21, 2021, International College in London, Approved and Certified by Training Quality Center in London.
6. Project Management for Development Professionals Training, 30 hours course completed on August 7, 2021, Jordan Paramedic Society, Amman-Jordan
7. Human Resources Development Training: June 1-3, 2019, Globis Management University, Tokyo-Japan
8. MPT Training (mini-MBA program for young managers): June 6-8, July 19-20, Aug. 23-25, Sept. 21-22, Oct. 25-27, Dec. 12-14, 2017, Jan. 18-19, March 5, 2018, Globis Management University and Hitachi Metals, Ltd., Tokyo-Japan
9. Safety Manager Appointment Training, Wellnet Ltd., May 23, 2016, Tokyo-Japan
10. Management Training (Newly Appointed Deputy Associate Director): June 14-18, 2014, Hitachi Metals Ltd., Fuji Wakyo Center, Yamanashi-Japan
11. Profit and Cost Accounting On-job Correspondence Course: Oct. 1, 2013 to Jan. 31, 2014, Sanno University, Tokyo-Japan
12. Fundamentals of Sequential Control (Automation Mechanism) On-job Correspondence Course: Oct. 1, 2012 to Jan. 31, 2013, Japan Technical Education Center, Tokyo-Japan
13. HiPIMS Coating System INGENIA S3p Training: May 13-17, 2013, Oerlikon Balzers, Balzers-Liechtenstein
14. High Power Impulse Magnetron Sputtering (course No. SVC C-323): June 14, 2012, Sheffield Hallam University, Sheffield-UK
15. HIPIMS Applications (course No. SVC C-333): June 15, 2012, Sheffield Hallam University, Sheffield-UK
16. Basic Knowledge of Lateral Thinking On-job Correspondence Course: April 1 to Aug. 8, 2012, Japan Management Association, JMA Management Center, Tokyo-Japan
17. Reducing Computer Operation time (MS Word and Excel) On-job Correspondence Course: Oct. 1, 2011 to Feb. 28, 2012, Japan Management Association, JMA Management Center, Tokyo-Japan
18. Mold Processing Technology On-job Correspondence Course: April 1 to Sept. 30, 2011, Japan Technical Education Center, Tokyo-Japan
19. Plant Management Techniques Training: Jan. 18-21, 2011, Hitachi Metals Ltd., Fuji Wakyo Center, Yamanashi-Japan
20. Career Planning and Entrepreneurship (Step-up I) Training: Sept. 28-30, 2010, Hitachi Metals Ltd., Fuji Wakyo Center, Yamanashi-Japan
21. Cost knowledge Training: Nov. 9-13, 2009, Hitachi Metals Ltd., Fuji Wakyo Center, Yamanashi-Japan
22. Development and Design Techniques Training: July 27-30, 2009, Hitachi Metals Ltd., Fuji Wakyo Center, Yamanashi-Japan
23. Engineer's Training (Casting and Manufacturing): March 10-12, 2009, Hitachi Metals Ltd., Kuwana Training Center, Kuwana-Japan
24. Practical English Technical Writing On-job Correspondence Course: April 1 to Sept. 30, 2009, Society for Testing English Proficiency, Tokyo-Japan
25. Practical Plastic Injection Molding On-job Correspondence Course: Oct. 1, 2008 to Feb. 24, 2009, Japan Technical Education Center, Tokyo-Japan
26. Patent and Intellectual Property Training: Dec. 9-12, 2008, Hitachi Metals Ltd., Fuji Wakyo Center, Yamanashi-Japan
27. Selection and Applications of Plastic Materials Seminar: Nov. 14, 2008, Shimane

Prefecture, Shimane-Japan

TECHNICAL SKILLS

1. E-Teaching Skills: Microsoft Teams, Zoom, Moodle
2. Computer Skills: Windows, MS Office, Canvas, Origin, C, AutoCAD, SolidWorks
3. Analytical Tools:
   FESEM, SEM, EPMA, EDX, XRD, Raman Spectroscopy, GDOES, FIB, OM, Nanoindentation Hardness testing, Scratch tester, Tribometer (BOD), Surface Roughness and Profile, HRC Adhesion Indentation
4. Safety and Management Certification
   (I) Certified International Trainer in Business, and Materials and Manufacturing Engineering, December 2021, International University of Scientists and Thinkers
   (II) Certified International Professional Trainers, Membership No. 12204, Date of Membership August 21, 2021
   (III) Project Management for Development Professionals, Certificate No. 4512-1247101629-3123: August 21, 2021, PM4NGOs
   (IV) Hazardous Materials Engineer's Licenses, Class B Group 4, license No. 190: April 10, 2019, Shimane-Japan
   (V) Safety Manager Appointment Training, Registration No. ANKOOO16052034: May 23, 2016, Tokyo-Japan
   (VI) Slinging Operational Skills and Training, Certif. No. 42176: July 31, 2015, Shimane-Japan
   (VII) Working under Dusty Environment, Certif. No. 4028: Feb. 29, 2016, Shimane-Japan
   (VIII) Working under Oxygen-deficient Environment: Feb. 12, 2016, Shimane-Japan

LANGUAGES

Arabic (native), English (TOEIC-IP 920), Japanese (JPT N2)

HONORS AND AWARDS

1. Japanese Government (Monbukagakusho) Scholarship, Oct. 2002 to March 2008
2. Best Master’s Presentation Award, Graduate School of Science and Engineering, Department of Materials Science, March 2005

REVIEWER

Vacuum, Surface and Coatings Technology, Journal of Vacuum Science and Technology A

Last Updated on February 1, 2024