

Brief CV: MOHAMED AHMED TAHA

Prof. Dr. Eng., Design and Production Engineering Dept., Faculty of Engineering, Ain-Shams University, Cairo – Egypt

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Birth Date & Family Status: September 10, 1942 - married, two Daughters – Egyptian.

Scopus h index = 21		/ Google Scholar = 26	
وسام العلوم والفنون من الطبقة الأولى 1980	جائزة الدولة التشجيعية فى العلوم الهندسية 1979	جائزة الدولة التقديرية فى العلوم الهندسية 2022	
Listed in Stanford Best World scientists 2020. 2021, 2022			
Several Awards (Scholarships): Germany; DAAD,DFG – Sweden; SI, USA: Fulbright.			
- عضو مجلس بحوث وتكنولوجيا الصناعة أكاديمية البحث العلمى والتكنولوجيا (2021 – 2018) - عضو اللجنة الوزارية الدائمة للصلب منذ بدايتها 2018.			

* **Education:** 1972: Ph.D. and 1969: M.Sc. in Production Engineering (Metallurgy) Ain-Shams University, 1964: B.Sc. in Production Engineering, Alexandria University – Egypt.

* **Employment:** 1984: Professor, 1979: Associate Professor, 1974: Assistant Professor at Ain-Shams University – (1975 – 1977: Researcher, Max-Planck Institute for Iron Research, Germany) - 1964: Foundry Engineer, Helwan Foundries, Egypt.

* **Experience & Fields of Interests :** **Practical experience** in casting, steelmaking. Heat Treatment, industrial environment - **Industrial research** experience in different metallurgy such as shaped and continuous casting, melting and industrial furnaces, heat treatment, welding, protective coatings, Failure analysis & corrosion, sand and clay minerals, metallurgical environmental problems - **Scientific research** experience in fundamentals of metal and alloy solidification (heat flow, kinetics, thermodynamics, simulation), Liquid phase processing / Solidification, casting, welding, Metal formability, metal coating, Additive Manufacturing (Metals), Metal Matrix Composites, structure-property relationship.

- **Teaching** under and postgraduate courses in materials and manufacturing, Supervising and examination of B.Sc. projects, and over 50 M.Sc. and Ph.D. theses - Engineering training programs, **Establishment of M.Sc. and PG Diplomas Study Programs** at ASU, in “Advanced Materials Technology AMT” and “Product Development and Innovation PDI, **Establishment of Bilateral B.Sc. Study** in Materials Engineering ASU and TU-Clausthal.

- **Establishment and Supervising of Materials Engineering Laboratories** - Educational and Research – at ASU (Metals Casting and Metallurgical Processing, Polymer Engineering and Plastic Processing, Additive manufacturing DED WAAM, Laser, Mechanical and Nondestructive Testing, Microscopic – SEM and EDX.

* **Professional International Outreaches: Research Cooperation, Agreements:** Germany: Researcher Max-Planck Institut fuer Eisenforschung (1975-1977), visiting Prof. Giesserei-Institut (1980-1982), visiting Prof. TU-Clausthal (from 2020, continuing), 3 months short stays, RWT Hochschule Aachen, TU-Berlin, Hochschule Aalen, -Fraunhofer Institut fuer Elektronenstrahl – und Plasmatechnik, Switzerland: Ecole Polytechnique Federal de Lausanne – Denmark: Technical University of Denmark – Sweden: Royal Institute of Technology, Jonkoping University, France: University of Grenoble, Strasbourg University, USA: Texas Tech University, Texas A&M University, University of Florida.

Current Research Projects: Germany: TU-Clausthal, South Africa: CSIR Laser Centre) Pretoria.

Short Visits: for exchanging views, invited talks and conferences: numerous in different European countries, USA, Japan, India and Arabic countries.

* **Industrial Consultation and Occupation:** International: 1978 - 2015: Huettene-Albertus, GmbH, - 1990 – 2014: Diamant Metall Plastik, GmbH, Germany // Egypt: Previous / Temporarily: El-Ez Steel Co., Alexandria Automotive Castings, Amereya Metals Co., Previous: Helwan Iron Foundries,

Nasr Casting Co., Holding Co. For Refractories, Holding Co. For Metals Industry, Holding Co. For Petroleum.

* **Projects: International research projects:** European; 1 DFG, around 15 internal university projects, South Africa: 4 CSIR - Egyptian - German: 2 GERF and educational; 2 Tempus - Egyptian - USA: 2 FRCU – **National ASU Projects:** 4

* **Publication;** international **journals**, Conferences = 175 - Books (edited) = International 5.

* **Industrial Consultation** reports = around 50

* **Supervised Ph. D. / M.Sc.** theses = 50, currently supervised = 5.

- Scopus Journal Editorial Board: 3

* **Scientific Membership:** AIME, USA - Int. Committee for Cast-Metal Matrix Composites (several countries) – Egyptian Engineering Association – Egyptian Foundrymen’s Society.