Short CV of Prof. Mohamed Assaad Abdel-Raouf



Name: Mohamed Assaad Abdel-Raouf University Degrees:

- (1) Dr. rer. nat. habil. (Doctor of Science) in Theoretical Chemistry awarded in 1991 by Institute for Theoretical Chemistry, University of Erlangen-Nurenberg, Erlangen, West Germany (Referees: Prof. J. Ladik (Erlangen-Nurenberg Univ., WG), Prof. M. G. Huber (Bonn Univ. WG) and Prof. J. Cizek, (Waterloo Univ., Canada)).
- (2) D. Sc. (Doctor of Science) in Physics awarded in 1989 by Faculty of Science, Cairo University in Collaboration with the Royal Society of London (Referees: Prof. M. J. Seaton (University College, London, UK), Prof. H. B. Bransden (University of Durham, Durham, UK) and Prof. B. L. Moiseiwitsch (the Queen's University of Belfast, UK)).
- (3) Dr. rer. nat. (PhD) in Theoretical Physics awarded in 1977 by The Institute of Theoretical Physics, University of Tubingen, Tubingen, West Germany (Referees: Prof. Karl Wildermuth and Prof E. Schmidt).
- (4) M. Sc. In Theoretical Atomic Physics, awarded 1972 by the Faculty of Science, Ain Shams University, Cairo, Egypt (Referees: Prof M. A. Elnadi (Cairo Univ. Egypt) and A. H. Mousa (Ain Shams Univ., Cairo Egypt).
- (5) B. Sc. In Mathematics and Physics awarded in 1967 by the Faculty of Science, Ain Shams University, Cairo, Egypt.

Occupations: Professor of Theoretical Nuclear and Atomic Physics, Physics Department, Faculty of Science, Ain Shams University (1992-till now) and President of the Specialization Committee of Basic Sciences and Agricultural Studies at the Supreme Council of Egyptian Universities, Cairo, Egypt (March 2020-till now).

<u>Affiliation:</u> Physics Department, Faculty of Science, Ain Shams University, Cairo, Egypt.

Important Prizes:

- (1) Winner of Ain Shams University Merit Prize for Basic Sciences for 2018.
- (2) Winner of Omar El-Farouq prize for best Nuclear Physicist awarded by the Fulbright Organization in Cairo, 1993,
- (3) Winner of Fulbright Prize for 1993.

(4) Winner of the DAAD Scholarship for obtaining the PhD in Theoretical Physics, University of Tubingen during the period 1973-1977.

Promotions:

- (1) Promoted in 1989 with distinction to Full Professor of Applied Mathematics, by the Egyptian Supreme Committee for promoting Professors in Mathematics (Chairman: Prof. Dr. Afaf Sabry).
- (2) Promoted in 1992 with distinction to Full Professor in Theoretical Atomic and Nuclear Physics, by the Egyptian Supreme Committee for promoting Professors in Physics (Chairman Prof. Dr. Mohamed Abdelmaksoud Elnadi).

Scientific Activities:

- (1) Supervised 15 PhD Students (in Atomic Physics, Nuclear and Particle Physics, Material Sciences and Theoretical Chemistry) at Ain Shams, Cairo, and Menofia Universities.
- (2) Supervising 6 M. Sc. Students (in Atomic Physics, Nuclear Physics and Materials Sciences) at Ain Shams, Cairo, Beni Sweif and United Arab Emirates Universities.
- (3) Recently published a scientific book entitled "Novel Contributions in Theoretical Physics: Advanced Topics of Theoretical Physics", LAMBERT Academic Press, (ISBN: 978-620-0-54881-8) 242 pages.
- (4) Editor in Chief of the Proceedings of the "First International Conference on Particles, Materials and Energy: Advanced Medical and Industrial Applications", published by the IOP Journal of Physics Proceedings Series, Volume 1252, (2019), 374 pages.
- (5) Published 218 scientific Papers in peer reviewed Journals and Proceedings of International Conferences.
- (6) Participated in 62 International Conferences held in Western European Countries, Canada, and United States of America where I presented oral talks, posters, and chaired sessions.
- (7) Worked as Postdoctoral, Assistant, Research Associate, Research Co-Worker and Visiting Professor at Tubingen, Freiburg, Erlangen-Nurenberg Universities (west Germany) (1977-1982, 1984-1992) York University (Canada, 1983) and Solid-State Division at Oak Ridge National Laboratory, (USA) 1994. Also Worked as Visiting Professor at the Physics Department, Qatar University (1995-1999) and Physics Department Faculty of Science UAEU (2000-2014)
- (8) Chairman of the Organizing Committees and Editor of the Book of Abstracts and the Proceeding of the Following Meetings:
- (a) Book of Abstracts of the "First International Conference on Particles, Materials and Energy: Advanced Medical and Industrial Applications" held in Luxor, Egypt, December 2-6, 2018.
- (b) Book of Abstracts of the "First International Conference on the Concept of Time in Science, Philosophy and Theology", held at United Arab Emirates University, Al Ain, UAE, February 28-March 1, 2012.

- (c) Book of Abstracts of the "First Faculty of Science-Masdar Institute of Technology Workshop on "Present and Future of Sustainable Energies", held at UAEU, Al Ain, UAE, April 25, (2011).
- (d) Book of Abstracts and Proceedings of the "Workshop on Structure and Defects of Materials" held at Qatar University, Doha, Qatar, (1996) 323 pages.
- (e) Book of Abstracts and Proceedings of "International Symposium on High T_c Superconductivity and its Applications", held as collaboration between Ain Shams University, Al-Azhar University and Egyptian Atomic Energy Organization, Cairo, Egypt, April 5-15, (1993). 334 pages.

Membership of Scientific Organizations

- (1) President of the Specialization Committee of Basic Sciences and Agricultural Studies at the Supreme Council of Egyptian Universities, Cairo, Egypt (March 2020-till now).
- (2) Member of the Egyptian Supreme Committee for Promoting Egyptian Faculty Members to the ranks "Associate and Full Professors" September 2016-August 2019.
- (3) Member of the Editorial Board of different International Journals of Physics.
- (4) Previous member of the American Physical Society (APS), Deutsche Physikalische Geselschaft (DPG) and European Physical Society (EPS).
- (5) Previous member of the "National Committee of History and Philosophy of Sciences", Egyptian Academy of Scientific Research and Technology, Cairo, Egypt. (President of the Committee Prof. Mahmoud Hafiz).
- (6) Previous member of "the Basic Sciences Committee", Egyptian Academy of Scientific Research and Technology, Cairo, Egypt. (President of the Committee Prof M. A. Elnadi),
- (7) Previous member of "the Egyptian Academy of Sciences", (president of the Academy: Prof. N. Barakat) and "the Egyptian Scientific Union" (President of the Union Prof. Mahmoud Hafiz).
- (8) Member of the International Committee for selecting the Winner of King Faisal Prize in Physics for the year 1993.
- (9) Chairman of Fulbright Commission for selecting the winners of the Fulbright Prizes for the years 1993/1994 and 1994/1995.

Translation of Important Books from German and English

- (1) Werner Heisenberg "Der Teil und das Ganze: Gespraerche im Umkreis der Atomphysik = The Part and the Whole Discussions in the vicinity of Atomic Physics = الجزء والكل محاورات في Book Number 27 in New Thousand Books Series Published by the National Egyptian Book Organization, (1986) (ISBN: 977-01-1133-3 1986/5248 (رقم الإيداع: 1986/5248) 1986/5248.
- (2) Union of Concerned Scientists "The Fallacy of Star War: Why Space Weapon Can't Protect Us. Space Defense Initiative (SDI): Analytical Investigation of Weapons and Strategy of Star War. مبادرة الدفاع الاستراتيجي: دراسة تحليلية لأسلحة واستراتيجيات حرب الفضاء "Rook Number 54 in New Thousand Rooks Sories Bublished by the National Equation Rooks.

Book Number 54 in New Thousand Books Series Published by the National Egyptian Book Organization, (1988) (ISBN: 977-01-1697-1 1988/2195) 224 pages.

(4) Galileo Galilea "Dialogue Concerning the Two Principle Systems of the Universe: The Proteomic and Copernican Systems"

حوار حول النظامين الرئيسيين للكون: النظام البطليموسي والنظام الكوبرنيقي

Books Numbers 91, 92 and 93 in New Thousand Books Series Published by the National Egyptian Book Organization, (1990, 1991, 1991, respectively)

Part 1: (ISBN: 977-01-2003-9 1990/5248 (رقم الإيداع: 279 pages.

Part 2: (ISBN: 977-01-1133-3 1991/5248 :رقم الإيداع) 272 pages.

Part 3: (ISBN: 977-01-2824-1 1991/7206 :رقم الإيداع) 283 pages.

- (5) "Reflections on Science and Culture تأملات في العلم والثقافة published recently by the National Egyptian Book Organization, (2021) (ISBN: 978-977-91- 3409-3 2021/22149: 352 pages.
- (6) Translated and edited several scientific papers published in the Arabic version of the Journal Scientific Americans.
- (7) Further Information could be found on ResearchGate, Landline, Facebook and Who is Who in Physics, by introducing my full name "Mohamed Assad (Assaad) Abdel-Raouf or محمد أسعد عبد الرؤوف
- (8) Nuclear Reactors and their Effects on Environment (المفاعلات النووية وآثارها على البيئة: دار) العالم العربي (2023), 258 pages, (ISBN: 978-977-482-5 (العالم العربي .

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(9) Galileo Galilea "Discourse Concerning Two New Sciences: Mechanics and Local Motion" محادثات حول علمين جديدين: الميكانيكا والحركة المكانية

in New Thousand Books Series Published by the National Egyptian Book Organization, (2023) 462pages ISBN: 9781-977-91-4323-1, 2023/1998 رقم الإيداع).