Manfred Fehr

Personal Resume (July 2026)

Nationalities: Brazilian, Canadian — profession: chemical engineer

presently: professor emeritus, Federal University, Uberlândia, Brazil

academic titles: B.Sc. Université Laval, Québec, Canada 1967
M.Sc. University of Alberta, Edmonton, Canada 1969
Ph.D. Université Laval, Québec, Canada 1978

registered professional engineer in Minas Gerais, São Paulo (Brazil), Alberta, Québec (Canada)

working languages (fluent): English, French, Spanish, Portuguese, German

present areas of interest: environmental and waste management, urban sanitation and sustainability

specialized training: leave of absence at Petrobrás, Paulínia BR 1980, study of fluid catalytic cracking
leave of absence at Petroquímica União, Santo André BR 1981, study of thermal naphtha cracking
post-doctoral fellow at Kungliga Tekniska Högskolan, Stockholm SE 1990, study of incinerator modeling
sabbatical leave at CANMET, Montréal CA 1992, study of energy diversification
research project at UMIST, Manchester UK 1996 and 1998, study of process integration
research project at UNIOVI, Oviedo ES 1999, study of urban sanitation

scientific output:

journal articles	148 (1430 literature citations, h=21)
newspaper / magazine articles	53
consulting reports	35
research reports	119
conference and symposium presentations	171
extension courses	14
speaking engagements	60
books and invited chapters	8

academic activity indicators:

honorary mentions	396 (96 biographical reference listings)
theses and term projects supervised	315

acted as reviewer of 93 journals and regular events
reviews and exam committees 536 (255 reviews for journals, 43 reviews for conferences, 87 reviews for funding agencies, 151 academic panels)
Publons Peer Review Award 2017, Member Metafact Academy of Experts,
Elsevier Certificate of Outstanding Contribution in Reviewing 2017

hours of university lecturing	11280 (in 40 years of dedication)
professional refresher events attended	61
past and present society affiliations	39
publications listed in search engines	921
documented accesses to papers by readers	101577 (from 198 countries)
best Research Gate score	31,06 – research interest score 417,9

professional activities in the following 36 countries on all continents:
Algeria, Angola, Argentina, Australia, Austria, Bolivia, Brazil, Canada, Chile, China, Colombia, Czech Republic, Dominican Republic, El Salvador, Germany, Great Britain, India, Italy, Mexico, Netherlands, Nigeria, Paraguay, Peru, Portugal, Russia, Serbia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Thailand, Turkey, U.S.A., Venezuela.
Cumulative distance traveled by air in the exercise of those activities: 1.38 Million km.

major professional accomplishments:

- Consultant for placing Canadian volunteers in Peruvian universities.
- Conception of a 64-course program for in-plant training of steel mill engineers.
- Development of a pilot scale hydrogen purifier.
- Creation and operation of a marketing division for a technological development firm.
- Duplication of throughput in a brick factory by modern management methods.
- Founder and president of two local chapters of the Brazilian chemical engineers' association.
- 15% reduction of fuel consumption in wood fired utility boilers by correct combustion methods.
- Feasibility study of applying German economic aid to an Indian university.
- Development of universal fuel equivalence tables.
- Development of methods for instrument diagram synthesis.
- Development of objective quantitative grading systems for intellectual activities.
- Reengineering of university staff policies and evaluation procedures
- Organization of teachers' union treasury
- Determination of the environmental matrix and the ecological footprint for a town
- Development of a management model for fruit and vegetable marketing.
- Creation of resource arithmetic for local execution of world summit directives.
- Creation of the threshold targeting approach to municipal waste management
- Creation of zero waste situations in Brazilian apartment buildings with 500+ tonnes of residues diverted from landfill
- Determination of the opportunity cost of landfills.
- Development of procedures for a municipal zero-waste program.
- Investigation of cost/benefit relations in the public health/sanitation sectors.

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