FRANCESCO D'ERRICO, Ph.D.
Curriculum Vitae

INCARICO ATTUALE

Professore Ordinario (ruolo), Scuola di Ingegneria, Università di Pisa, Italia

FORMAZIONE

2022 M.Sc. (priv.) Protezione CBRNe (con lode), Università degli Studi di Roma "Tor Vergata", Italia
1996 Diploma di Specializzazione in Fisica Sanitaria/Medica (con lode), Università di Pisa, Italia
1995 Dottorato di Ricerca in Ingegneria Nucleare, Università di Pisa, Italia
1990 Laurea in Ingegneria Nucleare (con lode), Università di Pisa, Italia

CARRIERA ACCADEMICA

2018–pres. Professore Ordinario (ruolo), Scuola di Ingegneria, Università di Pisa, Italia
2013–2016 'Pesquisador Visitante Especial', Programma Federale Brasiliano 'Ciências sem Fronteiras'
2005–2017 Professore Associato (ruolo), Scuola di Ingegneria, Università di Pisa, Italia
2005–2017 Professore Associato a contratto, Dipartimento di Sanità Pubblica, Università di Siena, Italia
2001–2004 Ricercatore, Scuola di Ingegneria, Università di Pisa, Italia
1995–2001 Professore a contratto, Dipartimento di Sanità Pubblica, Università di Siena, Italia
1995–2001 Professore Assistente (a termine), Dipartimento di Radiologia Terapeutica, Yale University
1993 & 1994 Ricercatore Visitante, Dipartimento di Radiologia Terapeutica, Yale University
1992 & 1995 Docente, Commissione Europea, Physik-Zentrum, Bad Honnef, Germania
1987–88 Ricercatore Assistente, Dipartimento di Ingegneria Meccanica, Yale University

ALTRI INCARICHI PROFESSIONALI

2025–2028 Presidente, International Solid State Dosimetry Organization
2021–2026 Membro del Consiglio Direttivo, Fondazione European Training and Education in Radiation Protection (EUTERP)
2021–pres. Presidente, Consiglio Scientifico, Corso di Laurea Magistrale Internazionale in Protezione CBRNe, Università degli Studi di Roma "Tor Vergata", Italia
2019–pres. Membro del Consiglio Direttivo, Consorzio Interuniversitario per la Ricerca Tecnologica Nucleare (CIRTEN)
2017–pres. Direttore, Scuola Superiore di Radioprotezione "C. Polvani" dell'AIRP (IRPA Italia)
2013–pres. Membro, Comitato Scientifico Consultivo, Centro Collaboratore OMS per la Preparazione alle Emergenze e Risposta ai Disastri, Yale New Haven Health Systems
2007–2010 Presidente, International Solid State Dosimetry Organization
2006–2009 Membro del Consiglio Direttivo, Associazione Italiana di Radioprotezione (AIRP, sezione italiana IRPA)
2001–2013 Membro del Consiglio, European Radiation Dosimetry Organization (EURADOS)
2005 Membro della Commissione dei Revisori, U.S.-Israel Binational Science Foundation
2004 Membro della Commissione NIH per la Modellazione e Analisi di Sistemi Biologici
2001–2003 Membro, Commissione per la Definizione dei Bisogni di Ricerca, Health Physics Society
1998–2002 Membro, Gruppo di Lavoro ISO/TC85/SC2/WG7, International Organization for Standardization (curatori dello Standard ISO/DIS 21909)
1997–2000 Revisore, U.S. Civilian Research and Development Foundation

PREMI E ONORIFICENZE

2022–pres. Esperto Internazionale per l'Agenzia Internazionale per l'Energia Atomica (IAEA)
1998–pres. Membro Effettivo, Yale Cancer Center
1997–pres. Fellow, Timothy Dwight College, Yale University
1991–pres. Ricercatore Associato, Istituto Nazionale di Fisica Nucleare (INFN)
1991 Premio Giovane Ricercatore della Società Italiana di Ricerca sulle Radiazioni
1990 Premio Miglior Tesi di Laurea in Scienze, Università di Pisa, Italia

ATTIVITÀ EDITORIALI

2005–2012 Co-Direttore Responsabile, Radiation Measurements (Elsevier Science)
2004–2006 Editor Recensioni Libri, Radiation Protection Dosimetry (Oxford University Press)
2004–2005 Membro del Comitato Editoriale, Radiation Measurements (Elsevier Science)
2002–2012 Redattore, Bollettino EURADOS/EULEP European Research in Radiological Sciences
2002 Redattore Ospite, Nuclear Instruments and Methods (Elsevier Science)
2001–2006 Membro del Comitato Editoriale, Radiation Protection Dosimetry (Oxford University Press)
1995–pres. Revisore per riviste scientifiche nei settori della rilevazione delle radiazioni, dosimetria e biologia, tra cui: Radiation Research, Medical Physics, Health Physics, Nuclear Instruments and Methods, IEEE Transactions on Nuclear Science, Journal of Instrumentation, Radiation Measurements, Radiation Physics and Chemistry, Applied Radiation Isotopes, Radiation Protection Dosimetry, Brachytherapy, Physica Medica

RÉSUMÉ

Francesco d'Errico ha diretto e coordinato progetti di ricerca su metodi avanzati per la sicurezza e la protezione nucleare, il monitoraggio ambientale, la radioecologia, la biodosimetria, la rilevazione, dosimetria e spettrometria delle radiazioni, con il supporto della NASA (National Aeronautics and Space Administration), NIH (National Institutes of Health), NSF (National Science Foundation), DHS (Department of Homeland Security), DOE (Department of Energy) degli Stati Uniti, della Commissione Europea, del Ministero Italiano dell'Università e della Ricerca (MUR) e dell'Istituto Nazionale di Fisica Nucleare (INFN).

È stato co-autore o co-redattore di quattro volumi ed ha pubblicato circa 200 articoli su riviste scientifiche *peer-reviewed* (inclusi 17 articoli su invito), con un *h-index* di 28 e oltre 2800 citazioni secondo Scopus (*h-index* di 33, *i10-index* di 129 e quasi 4200 citazioni secondo Google Scholar). Il suo lavoro è citato in testi accademici tra cui: *Radiation Detection and Measurements* di Glenn Knoll, *Measurement and Detection of Radiation* di Tsoulfanidis e Landsberger, *Introduction to Health Physics* di Cember e Johnson, *Principles of Radiation Interaction in Matter and Detection* di Leroy e Rancoita, *Handbook of Accelerator Physics and Engineering* a cura di Wu Chao, Mess, Tigner e Zimmermann, *Handbook of Particle Detection and Imaging* a cura di Grupen e Buvat, e *Active Interrogation in Nuclear Security – Science, Technology and Systems* a cura di Jovanovic ed Erickson.

Infine, diversi standard internazionali e rapporti contengono sezioni largamente basate sul suo lavoro, tra cui: il Rapporto 66 *Determination of Operational Dose Equivalent Quantities for Neutrons* della International Commission on Radiation Units and Measurements (ICRU), lo Standard ISO/DIS 21909 *Passive neutron dosimetry* systems dell'International Organization for Standardization (ISO) e il Technical Report 403 *Compendium of Neutron Spectra and Detector Responses for Radiation Protection Purposes* dell'Agenzia Internazionale per l'Energia Atomica (IAEA).

PUBLICATIONS

Scientific Publications in Peer-reviewed Journals

1. **d'Errico, F.** and Apfel, R.E. (1990) *A new method for neutron depth dosimetry with the superheated drop detector*. Radiat. Prot. Dosim. **30**(2) 101-106.
2. Nath, R., Meigooni, A.S., King, R., Smolen, S. and **d'Errico, F.** (1993) *Superheated drop detector for determination of neutron dose equivalent to patients undergoing high energy x-ray and electron radiotherapy*. Med. Phys. **20**(3) 781-787.
3. Luszik-Bhadra, M., Alberts, W.G., **d'Errico, F.**, Dietz, E., Guldbakke, S. and Matzke, M. (1994) *A CR-39 track dosemeter for routine individual neutron monitoring*. Rad. Prot. Dosim. **55**(4) 285-293.
4. **d'Errico, F.** (1994) *Advances in individual neutron dosimetry*. Physica Medica **10** (Supplement 1) 32-33.
5. **d'Errico, F.** and Alberts, W.G. (1994) *Superheated drop (bubble) detectors and their compliance with ICRP 60*. Radiat. Prot. Dosim. **54**(3-4) 357-360.
6. **d'Errico, F.**, Alberts, W.G., Curzio, G., Guldbakke, S., Kluge, H. and Matzke, M. (1995) *Active neutron spectrometry with superheated drop detectors*. Rad. Prot. Dosim. **61**(1-3) 159-162.
7. **d'Errico, F.**, Alberts, W.G., Dietz, E., Gualdrini, G.F., Kurkdjian, J., Noccioni, P. and Siebert, B.R.L. *Neutron ambient dosimetry with superheated drop detectors*. Radiat. Prot. Dosim. **65**(1-4) 397-400 (1996).
8. Fattibene, P., Calicchia, A., **d'Errico, F.**, De Angelis, C., Egger, E. and Onori, S. *Preliminary assessment of alanine and LiF detectors for the dosimetry of proton therapy beams*. Radiat. Prot. Dosim. **66**(1-4) 305-309 (1996).
9. Luszik-Bhadra, M., **d'Errico, F.**, Lusini, L. and Wiegel, B. *Microdosimetric investigations in a proton therapy beam with sequentially etched CR-39 track detectors*. Radiat. Prot. Dosim. **66**(1-4) 353-358 (1996).
10. **d'Errico, F.**, Fattibene, P., Onori, S. and Pantaloni, E. *Criticality accident dosimetry with ESR spectroscopy*. J. Appl. Radiat. Isotopes **47**(11/12) 1201-1204 (1996).
11. Onori, S., **d'Errico, F.**, De Angelis, C., Egger, E., Fattibene, P. and Janovsky, I. *Proton response of alanine based pellets and films*. J. Appl. Radiat. Isotopes **47**(11/12) 1335-1339 (1996).
12. Onori, S., **d'Errico, F.**, De Angelis, C., Egger, E., Fattibene and P., Janovsky, I. *Alanine dosimetry of proton therapy beams*. Med. Phys. (1997) **24**(3) 447-453.
13. Vareille, J.C., Barelaud, B., Barthe, J., Bordy, J.M., Curzio, G., **d'Errico, F.**, Decossas, J.L., Fernandez, F., Lahaye, T., Luguera, E., Sampsonidis, O., Savvidis, E. and Zamani, M. *Advanced detectors for active neutron dosemeters*. Radiat. Prot. Dosim. **70**(1-4) 79-82 (1997).
14. **d'Errico, F.**, Apfel, R.E., Curzio, G., Dietz, E., Gualdrini, G.F., Guldbakke, S., Nath, R. and Siebert, B.R.L. *Superheated emulsions: neutronics and thermodynamics*. Radiat. Prot. Dosim. **70**(1-4) 109-112(1997).
15. Apfel, R.E., **d'Errico, F.** and Martin, J.D. *Fast discrimination of neutrons from (α-n) and fission sources*. Radiat. Prot. Dosim. **70**(1-4) 113-116 (1997).
16. Agosteo, S., Bodei, G., Colautti, P., Corrado, M.G., D'Angelo, G., **d'Errico, F**., Matzke, M., Monti, S., Silari, M. and Tinti, R. *Neutron measurement of an accelerator-based source for BNCT*. Radiat. Prot. Dosim. **70**(1-4) 559-566 (1997).
17. Di Capua, S., **d'Errico, F.**, Egger, E., Guidoni, L., Luciani, A.M, Rosi, A. and Viti, V. *Dose distribution of proton beams with NMR measurements of Fricke agarose gels*. Magn. Res. Imaging **54**(4) 489-495 (1997).
18. **d'Errico, F.**, Weiss, M., Luszik-Bhadra, M., Matzke, M., Bernardi, L. and Cecchi, C. *A CR-39 track image analyser for neutron spectrometry*. Radiat. Measurements **28**(1-6) 823-830 (1997).

19. Luszik-Bhadra, M., Dietz, E., **d'Errico, F.**, Guldbakke, S., and Matzke, M. *Neutron spectrometry with CR-39 track detectors and silicon diodes using unfolding techniques*. Radiat. Measurements **28**(1-6) 473-478 (1997).

20. **d'Errico, F.**, Nath, R., Lamba, M., Holland S.K. *A position sensitive superheated emulsion chamber for three-dimensional photon dosimetry*. Phys. Med. Biol. **43**(5), 1147-1158 (1998).

21. **d'Errico, F.**, Nath, R., Silvano, G., Tana L. *In-vivo neutron dosimetry during bremmstrahlung radiotherapy*. Int. J. Radiat. Oncol. Biol. Phys. **41**(5) 1185-1192 (1998).

22. **d'Errico, F.**, Nath, R., Tana, L., Curzio, G., Alberts, W.G. *In-phantom dosimetry and spectrometry of photoneutrons from an 18 MV x-ray accelerator*. Med. Phys. **25**(9) 1717-1724 (1998).

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24. Lamba, M., Holland, S.H., Elson, H., **d'Errico, F.** and Nath, R. *Magnetic resonance imaging of microbubbles in a superheated emulsion chamber for brachytherapy dosimetry.* Med. Phys. **25**(12) 2316-2325 (1998).

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27. **d'Errico, F.**, Luszik-Bhadra, M., Nath, R., Siebert, B.R.L., and Wolf, U. *Depth dose-equivalent and effective energies of photoneutrons produced by 6-18 MV x-ray beams for radiotherapy*. Health Phys. **80**(1) 4-11 (2001).

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29. **d'Errico, F.**, Apfel, R. E., Curzio, G., Nath, R. *Electronic personal neutron dosimetry with superheated drop detectors.* Radiat. Prot. Dosim. **96** (1-3) 261-264 (2001).

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31. Apfel, R.E., and **d'Errico, F.** *A neutron spectrometer based on temperature variations in superheated drop compositions*. Nucl. Instr. Methods **A476** (1-2) 298-303 (2002).

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33. Rivard, M.J., Sganga J.K., **d'Errico, F.**, Tsai, J.-S., Ulin, K., and Engler, M.J. *Calculated neutron air kerma strength conversion factors for a generically encapsulated Cf-252 brachytherapy source.* Nucl. Instr. Methods **A476**(1-2) 119-122 (2002).

34. Benck, S., **d'Errico, F.**, Denis, J.M., Meulders, J.P., Nath, R., Pitcher, E.J. *In-phantom spectra and dose distributions from a high-energy neutron therapy beam*. Nucl. Instr. Methods **A476**(1-2) 127-131 (2002).

35. Agosteo S, Curzio G, **d'Errico, F.**, Nath, R., Tinti, R. *Characterisation of an accelerator-based neutron source for BNCT versus beam energy*. Nucl. Instr. Methods **A476**(1-2) 106-112 (2002).

36. Luszik-Bhadra, M., **d'Errico, F.**, Hecker, O. and Matzke, M. *A Wide-Range Directional Neutron Spectrometer*. Nucl. Instr. Methods **A476** (1-2) 291-297 (2002).

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39. de Pasquale, F., Luciani, A. M., Pacilio, M., Guidoni, L., Viti, V., **d'Errico, F.**, Barone, P. and Sebastiani, G. *Dose reconstruction in irradiated Fricke-agarose gels by means of MRI and optical techniques: 2D modelling of diffusion of ferric ions.* Radiat. Prot. Dosim. **99**(1-4) 363-364 (2002).

40. **d'Errico, F.**, Agosteo, S., Sannikov, A.V. and Silari, M. *High energy neutron dosimetry with superheated emulsions.* Radiat. Prot. Dosim. **100**(1-4) 529-532 (2002).

41. Vanhavere, F. and **d'Errico, F.** *Standardisation of superheated drop and bubble detectors.* Radiat. Prot. Dosim. **101**(1-4) 283-287 (2002).

42. Roa, D.E., Song, H., Yue, N., **d'Errico, F.**, Nath, R. *Measured TG-60 dosimetric parameters of the Novoste Beta-Cath 90Sr/Y source trains for intravascular brachytherapy.* Cardiovascular Radiation Medicine 3 (3-4) 199-204 (2002).

43. Lamba, M., Holland, S.K., Schmithorst, V., Dardzinski, B., **d'Errico, F.**, and Nath R. *Fast high resolution 3D segmented echo planar imaging for dose mapping using a superheated emulsion chamber*. Magnetic Resonance in Medicine **49**, 675–681 (2003).

44. **d'Errico, F.**, Prokofiev, A., Sannikov, A.V., Schuhmacher, H. *High-energy neutron detection and spectrometry with superheated emulsions.* Nucl. Instr. Methods. **A 505**, 50-534 (2003).

45. **d'Errico, F.**, Luszik-Bhadra, M., Lahaye, T. *State of the art of electronic personal dosimeters for neutrons*. Nucl. Instr. Methods. **A 505**, 411–414 (2003)**.**

46. Roa, D. E., Song, H., Yue, N., **d'Errico, F**., Nath, R. *Dosimetric characteristics of the Novoste beta-cath ^{90}Sr/Y source trains at submillimeter distances.* Med. Phys. **31**(5) 1269-1276 (2004).

47. **d'Errico, F.**, Curzio, G., Ciolini, R., Del Gratta, A., Nath, R. *A neutron dosimeter for nuclear criticality accidents*. Radiat. Prot. Dosim., **110**(1-4), 487-490 (2004).

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49. Reginatto, M., Luszik-Bhadra, M., **d'Errico, F.** *An unfolding method for directonal spectrometers*. Radiat. Prot. Dosim, **110**(1-4), 539-543 (2004).

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54. de Pasquale, F., Barone, P., Sebastiani, G., **d'Errico, F.**, Egger, E., Luciani, A.M., Pacilio, M., Guidoni, L., Viti, V. *Ion diffusion modelling of Fricke-agarose dosemeter gels.* Radiat. Prot. Dosim. **120**(1-4), 151-154 (2006).

55. Vanhavere F., Bartlett D., Bolognese-Milsztajn T., Boschung M., Coeck M., Curzio G., **d'Errico F.**, Fiechtner A., Kyllonen J., Lacoste V., Lahaye T., Lindborg L., Luszik-Bhadra M., Molinos C., Muller H., Reginatto M., Schuhmacher H., Tanner R. *Evaluation of individual monitoring in mixed neutron/photon fields: mid-term results from the EVIDOS project.* Radiat. Prot. Dosim. **120**(1-4), 263-267 (2006).

56. Luszik-Bhadra M., Bartlett D., Boschung M., Coeck M., Curzio G., Derdau D., **d'Errico F.**, Fiechtner A., Itie C., Kyllonen J.-E., Lacoste V., Lahaye T., Lindborg L., Molinos C., Reginatto M., Schuhmacher

H., Tanner R., Vanhavere F. *Electronic neutron personal dosemeters: their performance in mixed radiation fields in nuclear power plants.* Radiat. Prot. Dosim. **120**(1-4), 378-382 (2006).

57. Taylor C., Montvila, D., Flynn, D., Brennan, C., **d'Errico F.** *An acoustical bubble counter for superheated drop detectors.* Radiat. Prot. Dosim. 120(1-4), 514-517 (2006).

58. **d'Errico, F.** *Status of radiation detection with superheated emulsions* Radiat Prot Dosimetry, **120**(1-4), 475-479 (2006).

59. Andrews H.R., Noulty R.A., Ing H., **d'Errico F.**, Lewis, B.J., Bennett L.G.I, and Green A.R. *LET dependence of bubble detector response to heavy ions.* Radiat. Prot. Dosim. **120**(1-4), 480-484 (2006).

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61. Luszik-Bhadra M., Bartlett D., Bolognese-Milsztajn T., Boschung M., Coeck M., Curzio G., **d'Errico F.**, Fiechtner A., Lacoste V., Lindborg L., Reginatto M., Schuhmacher H., Tanner R., and Vanhavere F. *Characterisation of mixed neutron–photon workplace fields at nuclear facilities by spectrometry (energy and direction) within the EVIDOS project.* Radiat. Prot. Dosim. **124**, 219-229 (2007).

62. Luszik-Bhadra M., Bolognese-Milsztajn T., Boschung M., Coeck M., Curzio G., Derdau D., **d'Errico, F.**, Fiechtner A., Kyllönen J.-E., Lacoste V., Lievens B., Lindborg L., Lovefors Daun A., Reginatto M., Schuhmacher H., Tanner R., and Vanhavere F. *Summary of personal neutron dosemeter results obtained within the EVIDOS project.* Radiat. Prot. Dosim. **125**, 293-299 (2007).

63. Tanner R.J., Bolognese-Milsztajn T., Boschung M., Coeck M., Curzio G., **d'Errico F.**, Fichtner A., Hager L.G., Hussien M., Kyllönen J.-E., Lacoste V., Lindborg L., Luszik-Bhadra M., Molinos C., Reginatto M., Schuhmacher H., and Vanhavere F. *Neutron area survey instrument measurements in the EVIDOS project.* Radiat. Prot. Dosim. **125**, 300-303 (2007).

64. **d'Errico F.**, Giusti V., and Siebert B.R.L. *A new neutron monitor and extended conversion coefficients for $H_P(10)$.* Radiat. Prot. Dosim. 125, 345-348 (2007).

65. Luszik-Bhadra M., Bolognese-Milsztajn T., Boschung M., Coeck M., Curzio G., **d'Errico F.**, Fiechtner A., Lacoste V., Lindborg L., Reginatto M., Schuhmacher H., Tanner R., and Vanhavere F. *Direction distributions of neutrons and reference values of the personal dose equivalent in workplace fields.* Radiat. Prot. Dosim. **125**, 364-368 (2007).

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68. Vanhavere F., Luszik-Bhadra M., Bartlett D., Bolognese-Milsztajn T., Boschung M., Coeck M., **d'Errico F.**, Fiechtner A., Kyllonen J-E., Lacoste V., Lindborg L., Reginatto M., Schuhmacher H., Tanner R. *Summary of the Neutron Dosemeter Results of the EVIDOS project*, Annals of the Belgian Society of Radiation Protection, **32**(1), (2007).

69. Clairand I, Struelens L, Bordy J.M, Daures J, Debroas J, Denozières M, Donadille L, Gouriou J, Itié C, Vaz P and **d'Errico F**. *Intercomparison of active personal dosemeters in interventional radiology*. Radiat Prot Dosimetry, **129**, 340-345 (2008)

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71. **d'Errico F.**, Di Fulvio A., Maryañski M., Selici S. and Torrigiani M. *Optical readout of superheated emulsions.* 43(2-6), 432-436 (2008).

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