

Contact information	Institutional address	Università di Roma "La Sapienza" Facoltà di Ingegneria – Faculty of Engineering Dipartimento di Ingegneria Civile, Edile ed Ambientale – Dpt. of Civil, Buildings and Environmental Engineering Via Eudossiana, 18 –00184 – Roma (RM)
	Telephone	Tel. +39 44 585 116; Fax +39 44 585 121; mobile +39 345 3612127
	@mail	antonio.dandrea@uniroma1.it
Personal and academic profile	Personal data	Born in Rome (Italy) – Date of birth 01/08/1956
	Actual position	Full Professor
	Academic career	(march 1986) MS in Civil Engineering (5 years course) (july1990) Scientific Researcher (november 1998) Associated Professor (September 2010) Full Professor
	Current institutional appointments	Director of the Department of Civil, Buildings and Environmental Engineering - "Sapienza" University of Rome
	Member of Scientific Committee	(2013 - today) Member of Consiglio Superiore dei Lavori Pubblici – Italian Ministry (2013 - today) Member of Comitato tecnico permanente per la sicurezza dei sistemi di trasporto a impianti fissi. Ministero delle Infrastrutture e dei Trasporti. (2010 - 2013) Member of Commissione per le funicolari aeree e terrestri. Ministero delle Infrastrutture e dei Trasporti. (1992-today) Member of the UNI Commission "Costruzioni Stradali ed opere civili delle Infrastrutture", Commission 2 "Materiali stradali", Workgroup GL4. "Misti cementati, misti granulari non legati e materiali marginali". (2013) Member of the Scientific Committee of ICTI 3 rd Int. Conference 2014 in Pisa. (2013) Member of the Scientific Committee of INERTIA Rem Tech 2013 in Ferrara. (2012) Member of the Scientific Committee of SIIV 5 th Int. Congress in Rome. (2004-2007) Member of the Technical Committee of PIARC-UNI. (2005) Member of the Scientific Committee of TREMTI Conference in Paris. (1999-2002) Member of the Commission UNI "Edilizia" GL 7/SC 1. (1996-1999) Member of the National PIARC Technical Committee C7 "Pavimentazioni Rigide" Dept. of Public Works.
	Selection of invited technical presentations or seminars	(2013) <i>Green roads and recycled aggregates - Strade verdi e aggregati riciclati</i> Convegno ANPAR-ANCE, Torino and INERTIA 2013, Ferrara (2012) <i>L'utilizzo di aggregati riciclati nelle costruzioni stradali - XVI Interforum Recycling of FIR - INERTIA 2012</i> , Ferrara (2005) <i>C&D aggregates for design controlled Low Strength Materials (CLSM) as filling</i> , International Conference TREMTI, Paris. (2003) <i>Asphalt with rubber grains as anti-vibrating sub-ballast</i> . RAILWAY ENGINEERING 2003, London. (2003) <i>Recupero di scorie da incenerimento di rifiuti ospedalieri nei conglomerati bituminosi</i> . IV International Conference and Expo VARIREI – Valorization and Recycling of Industrial Waste. L'Aquila. (2001) <i>Italian way to the C&D waste standardization as road material</i> . Conference "Beneficial Use of Recycled Materials in Transportation Applications", Arlington.
	Awards	(1985) CIFI (Collegio Ingegneri Ferroviari Italian) Award for the best thesis on terrestrial transportation.

Teaching	Courses	<p>(2008-2014) Design and Construction of Roads (12 cfu) & Techniques of Road Costructions (6 cfu) (University of Rome "La Sapienza")</p> <p>(2003-2008) Techniques of Infrastructural Works (6 cfu) (University of Rome "La Sapienza")</p> <p>(2003-2008) Construction of Roads (6 cfu) (University of Rome "La Sapienza")</p> <p>(2004-2005) Multidisciplinary Integrated Design Lab (4.5 cfu) (University of Rome "La Sapienza")</p> <p>(1999-2003) Techniques of Roads Railways and Airports Works (v.o.) (University of Rome "La Sapienza")</p> <p>(1999-2000) Construction of Roads Railways and Airports (v.o.) (University of Rome "La Sapienza")</p> <p>(1998-99) Construction of Roads Railways and Airports (v.o.) (University of Rome "La Sapienza")</p> <p>(1996-97/1997-98) Construction of Roads Railways and Airports (v.o.) (University of Rome "La Sapienza")</p> <p>(1994-95/1995-96) Roads Infrastructure in Metropolitan Areas (v.o.) (University of Rome "La Sapienza")</p>
Research	<p>Field of interest</p> <p>Consulting activities. Selected Research Examples</p> <p>Selected Publications</p>	<p>Road materials, recycling, vibrations, embankments.</p> <p><u>Edilstudio Impianti s.r.l. & Tioxide</u> – 2012-2013 Red gypsum utilization in embankments.</p> <p><u>ICI s.p.a.</u> – 2007-2009 - Reclaiming aggregates from ecological treatment of waste materials.</p> <p><u>RFI s.p.a.</u> – 2006-2008 - Development of hot mix asphalt containing rubber grains as anti-vibrating sub-ballast layer.</p> <p><u>RFI s.p.a.</u> – 2004-2006 -Development and set up of hot mix asphalt containing rubber grains as anti-vibrating sub-ballast layer;</p> <p><u>Ambiente Roma Est</u> – 2008 – Upgrading of aggregates coming from construction and demolition waste.</p> <p><u>RFI s.p.a.</u> – 2006-2008 – Marginal materials and innovative systems for railway embankment.</p> <p><u>AREL</u> – 2006 – Qualification of aggregates to be used in civil engineering works;</p> <p><u>Centro Sviluppo Materiali</u> – 2005 – Stabilized organic fraction (FOS) recycling for filling.</p> <p><u>ICI s.p.a.</u> – 2002-2005 – Industrial waste water sludge recycling in road embankments.</p> <p><u>ARGO</u> – 2004 – Beneficial use of waste rubber in civil engineering.</p> <p><u>MUR</u> - PRIN2006 National Project – From recycled material research to their active employ and standard definition.</p> <p><u>MUR</u> – PRIN2003 National project – Performance and durability of roads made of recycled materials;</p> <p>D'Andrea, A., C. Fustaino, and C. Tozzo. <i>Recycling Dredged Sludge in Asphalt Pavement</i>. Journal of Materials in Civil Engineering (2014).</p> <p>Fiore, N., D'Andrea, A., Tozzo, C., & Zagaroli, M. (2014). <i>Gasification bottom ash in road pavements</i>. Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management, 235.</p> <p>Tozzo C., Fiore N., & D'Andrea, A. (2014). <i>Dynamic shear tests for the evaluation of the effect of the normal load on the interface fatigue resistance</i>. Construction and Building Materials, 61, 200-205. http://dx.doi.org/10.1016/j.conbuildmat.2014.03.010</p> <p>Tozzo C., D'Andrea A. Cozzani D., Meo A.:(2014), <i>Fatigue Investigation of the Interface Shear Performance in Asphalt Pavement</i>, Modern Applied Science; Vol. 8, No. 2; 2014 ISSN 1913-1844 E-ISSN 1913-1852 Published by Canadian Center of Science and Education URL: http://dx.doi.org/10.5539/mas.v8n2p1</p>

Cantisani G., Corazza M.V., D' Andrea A., Di Mascio P., Loprencipe G. (2013).
Il progetto geometrico delle infrastrutture per la mobilità ciclabile.
Road Safety, 1- 3, 2, dicembre 2013; ISSN:2282-6726

Moretti, L., Di Mascio, P., D'Andrea, A. (2013)
Environmental impact assessment of road asphalt pavements.
Modern Applied Science, 7 (11), pp. 1-11; ISSN: 1913-1844
DOI: 10.5539/mas.v7n11p1; Scopus: 2-s2.0-84888405113

D'Andrea, A., Russo, S., Tozzo, C. (2013)
Interlayer shear testing under combined state of stress.
Advanced Materials Research, 723, pp. 381-388. ISBN: 978-303785740-3;
ISSN: 1022-6680; DOI: 10.4028/www.scientific.net/AMR.723.381

D'Andrea, A., Tozzo, C., Boschetto, A., Bottini, L. (2013)
Interface roughness parameters and shear strength.
Modern Applied Science, 7 (10), pp. 1-10; ISSN: 1913-1844
DOI: 10.5539/mas.v7n10p1

D'Andrea A., Loprencipe G., Xhixha E.(2012).
Vibration induced by rail traffic: evaluation of attenuation properties in a bituminous sub-ballast layer.
Procedia: Social & Behavioral Sciences, 245- 255, 53; ISSN:1877-0428
DOI: 10.1016/j.sbspro.2012.09.877

D'Andrea A., Tozzo C. (2012)
Interlayer Shear Failure Evolution with Different Test Equipments.
Procedia: Social & Behavioral Sciences, 556- 567, 53 Elsevier Ltd; ISSN:1877-0428; DOI:.10.1016/j.sbspro.2012.09.906

Mei A., Fiore N., Salvatori R., D'Andrea A., Fontana M.(2012)
Spectroradiometric Laboratory Measures on Asphalt Concrete: Preliminary Results.
Procedia: Social & Behavioral Sciences, 514- 523, 53 Elsevier Ltd; ISSN:1877-0428; DOI: 10.1016/j.sbspro.2012.09.877

De Chiara F., Fontul S., A. Paixao A., D'Andrea A. (2011)
Bituminous mixtures application in railway sub-ballast layer.
5th International Conference Bituminous Mixtures and Pavements.
1-3 Giugno 2011 Thessaloniki

Villani M., Liu X., Scarpas A., D'Andrea A. (2010).
Numerical modelling of the mechanical response of recycled materials in embankments.
Numerical Methods in Geotechnical Engineering – Benz & Nordal @2010 Taylor & Francis Group, London, ISBN 978-0-415-59239-0.

A.D'Andrea, M. Villani. (2008). *Recycling of fine material with high water content.*
The 23th International Conference of Solid Waste Technology and Management.
Philadelphia PA USA. March 30 - April 2, 2008. ISBN/ISSN: 1091-8043.

A. D'Andrea, V. Shulmann et al. *Re-Book – Recycled Tyre Materials in Roads and Civil Engineering.* Edizioni Argo – Roma 2007

A. D'Andrea, N. Fiore, G. Pennucci. (2006). *Influenza delle tolleranze compositive ed esecutive dei conglomerati bituminosi sul modulo complesso.* In: Manutenzione e adeguamento delle strade esistenti. SIIV 2006. 20-22 september 2006. ISBN/ISSN: 88-7458-050-9.

A. D'Andrea, T. Loisi, L. Urbani. (2006). *Fenomeni vibratori da traffico stradale in presenza di strati con granulato di gomma.* In: Manutenzione e adeguamento di

strade esistenti. SIIV 2006. 20-22 september 2006. ISBN/ISSN: 88-7458-050-9.

A. D'Andrea, G. Rossi (2005). *C&D aggregates for design controlled Low Strength Materials (CLSM) as filling*. TREMTI - Paris.

A. Ranzo, A. D'Andrea, P. Di Mascio, M. V. Corazza -
Caratteristiche funzionali e costruttive delle infrastrutture per la mobilità pedonale -
Editrice Librerie Dedalo, September 2004, ISBN 88- 86599 – 66 – 8;

A. D'Andrea, D. Drago, L. Galeotti. (2004). *L'impiego di alcune tipologie di rifiuto nel campo delle costruzioni stradali: considerazioni sulla valutazione dei possibili meccanismi di rilascio*. Simposio Internazionale di Ingegneria Sanitaria ed Ambientale organized ANDIS.

A. D'Andrea. (2004). *Ambiti di impiego di aggregati riciclati*. RECYCLING. vol. anno 8, n.1, pp. 92-97 ISSN: 1593-2419.

A. D'Andrea., L. Urbani, G. Bonin. (2004). *Traffic Vibration Damping With Innovative Materials: Development And Calibration Of a Simulation Model*. II International Congress SIIV.

A. D'andrea, L. Urbani, S. Guzzo. (2004). *Design and monitoring of a safe pedestrian crossing facility: via Venezia Giulia, Rome*. II International Congress SIIV.

A. D'Andrea, D. Drago, V. Bonora. (2004). *Asphalt concrete with bottom ash: environmental aspects*. In: RRRTEA. Proceedings of RRRTEA'04. ISBN 88-7999-765-3.

A. D'Andrea, N. Fiore. (2003). *Fatigue life of asphalt concrete with rubber grains*. In: A. VARVANI-FARAHANI, C.A. BREBBIA. *Fatigue Damage of Materials - Experiment and analysis*. (pp. 65-74). ISBN: 1-85312-979-8. : WITpress (UNITED KINGDOM).

A. D'Andrea., Buonanno A. (2003). *Asphalt with rubber grains as anti-vibrating sub-ballast*. RAILWAY ENGINEERING, 27 APRILE 2003 LONDON.

Doctorate**Membership Courses**

Member of the board of teachers of the Doctorate course: "Infrastrutture di viabilità e trasporto", University of Rome "La Sapienza"
