

RESUME

Name : Dr.D.THENMUHIL
Designation : ASSOCIATE PROFESSOR
Date of Birth : 15.04.1979
Permanent Contact Address : H92/S1, Seaview Apartment
First Seaward Road
Valmiki Nagar
Thiruvanmiyur, Chennai - 41
Tel : 044-24512388
Mob : 9840619319
E-mail : thenmuhil@annauniv.edu, thenmuhil@gmail.com



Academic Qualification

Course	Educational Institution	Class	Year of Passing
Ph. D	Anna University	NA	2009
M. Tech (Ceramic Tech)	Anna University	First Class with Distinction	2002
B. E (Chemical Engg)	Annamalai University	First Class with Distinction	2000

Areas of Interest/Research

- **Bio-ceramics**
- **Porous Ceramics**
- **Peizo-electric Ceramics**
- **Refractories**
- **Carbon and graphite**
- **Traditional Ceramics**

Academic Experience

S.No.	Designation	Institution / University	Duration
1.	Teaching Research Associate	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	18.02.2002 – 25.03.2005
2.	Lecturer (Contract)	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	25.03.2005 – 29.10.2008
3.	Lecturer / Assistant Professor	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	29.10.2008 - 29.10.2015
4.	Associate Professor	Department of Ceramic Technology, A.C.College of Technology, Anna University, Chennai – 600 025	29.10.2015 - Till date

Funded Research Projects

Funding Agency	Title of the Project	Amount	Ongoing/ Completed
CTDT, Anna University	Incorporating Coir Waste in Clay Brick to Reduce Energy Consumption and SPM Emission during Production	Rs. 50,000/-	Completed (2011-2012)
DST	Development of Vitrified Grinding Wheel with Low Temperature Ceramic Bond	Rs. 24,86,000/-	Completed (2013-2015)

LIST OF PUBLICATIONS

International / National Journals

1. **Thenmuhil .D**, Raajenthiren .M and Kamaraj .V, "Effect of pH on Macroporosity of Hydroxyapatite Prepared by Foaming and Gelcasting using Ovalbumin", International Journal of Materials Science, Vol.5 (4), pp. 309-318. , (2010)
2. **Thenmuhil .D**, Raajenthiren .M and Kamaraj .V, "Preparation of Macroporous Hydroxyapatite by Foaming and Gelcasting using Ovalbumin and its Optimization by Taguchi Method", Advances in Applied Ceramics, published by Maney Publishing. Vol. 109, Issue 7, pp. 377-382, (2010)
3. **D.Thenmuhil**, K.V.Vignaswaran, S. Manisha Vidyavathy, "Influence OF Nickel oxide Additive on The Properties of Sol-Gel Prepared Aluminum Borate whisker", Advanced Materials Research, published by Trans Tech Publishers. Vol.984, pp. 238-242, (2014)
4. G. Venkatesh, **D.Thenmuhil**, S. Manisha Vidyavathy, "Effect of Addition of Nano Zirconia in Ceramic Glazes", Advanced Materials Research, published by Trans Tech Publishers. Vol. 984, pp. 488-494, (2014)
5. **D.Thenmuhil**, K.V.Vignaswaran, R.Yasmin Sulthana, T.Pavithra, "Preparation of Wollastonite from Used Plaster of Paris and Quartz through Solid-State Reaction", International Journal of Research and Scientific Innovation , published by Research and Scientific Innovation Society, pp. 540-543, (2014)
6. **Thenmuhil D**, Rohan J, Priyadarshini B, Sathishkumar P, Manohar P, "Development of Vittrified Grinding Wheel with Low Temperature Bond", Advances in Natural and Applied Sciences, published by AENSI Publication. Vol. 10, Issue 4, pp. 436-441, (2016)
7. Gowri V and **Thenmuhil D.**, "Adsorption Behaviour of Lead Removal from Aqueous Solution on to NanoTitanium Dioxide.", Research Journal of Pharmaceutical, Biological and Chemical Sciences, published by RJPBCS. Vol. 8, Issue 3, pp. 342-351,(2017)
8. S. Aarthy, **D. Thenmuhil**, G. Dharunya, P. Manohar, "Exploring the effect of sintering temperature on naturally derived hydroxyapatite for bio-medical applications", Journal of Materials Science: Materials in Medicine , published by Springer. Vol. 30, Issue 21, pp. 1-11, (2019)
9. Nanthini Amirthalingam, **Thenmuhil Deivarajan**, Manohar Paramasivam, "Mechano chemical synthesis of hydroxyapatite using dolomite", Materials Letters, published by

Elsevier. Vol. 254, pp. 379-382, (2019).

10. P Reena, N Gobi, P Chitralkha, **D Thenmuhil** and V Kamaraj, "Mesoporous titania embedded polyacrylonitrile composite nanofibrous membrane for particulate matter filtration", Journal of Thermoplastic Composite Materials, published by SAGE Publications. (2019)
11. Evelyn Derina Pinheiro, **Thenmuhil Deivarajan**, "A Concise Review Encircling Lead Free Porous Piezoelectric Ceramics", Acta Physica Polonica A, Vol.136, No.3, pp.555-565, (2019).
12. Evelyn Derina Pinheiro, **Thenmuhil Deivarajan**, "Influence of porous configuration on dielectric and piezoelectric properties of KNN–BKT lead-free ceramic", Applied Physics A, published by Springer, Vol.125, pp.1-8, (2019).
13. V. R. Giri Dev, **D. Thenmuhil**, T. Hemamalini, S. Rahamedsara, S. Shubhathra & S. Vijayalaksmi, "Clay incorporated wet laid wood pulp based wound dressing for severe hemorrhage", The Journal of The Textile Institute published by Taylor & Francis, Vol.111(6), pp.821-826,(2020).
14. M. Krishnan, R. Manikandan, **D. Thenmuhil**, "Effect of heat treatment and zircon addition on the properties of low-cement castables based on recycled alumina grog", Ceramic International published by Elsevier, Vol.47, Issue.3, pp.3430-3443, (2021).
15. Anitha Nithyanandam, **Thenmuhil Deivarajan**, "Development of fly ash cenosphere-based composite for thermal insulation application", International Journal of Applied Ceramic Technology published by American Ceramic Society, Vol.18, Issue 5, pp.1825-1831, (2021).

International / National Conference/Seminars/Symposium

1. "Behaviour of Chemically prepared Zinc Oxide Nanoparticles in Sanitaryware Glazes" presented in a International level conference on International Symposium on Advanced Nanomaterials, organised by IIT Guwahati, India from 09-Dec-2010 to 11-Dec-2010.
2. "Utilisation of Sanitaryware Waste in the Preparation of Low Cost Pervious Concrete" presented in a National level conference on National Symposium on Ceramics: Energy and Environment and 74th Annual Session of the Indian Ceramic Society, organised by Indian Ceramic Society, India from 11-Jan-2011 to 13-Jan-2011.
3. "Synthesis and Characterization of Sol Gel Derived Zirconia – Hydroxyapatite Composites by Conventional and Microwave Sintering" presented in a International level conference on AMN-Fifth International Conference on Advanced Materials and Nanotechnology, organised by The MacDiarmid Institute, New Zealand from 07-Feb-2011 to 11-Feb-2011.

4. "Cobalt doped Titania Nanoparticles - A new trend in ecofriendly tiles" presented in a National level conference on 75th Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 20-Dec-2011 to 22-Dec-2011.
5. "Zeolite from Flyash - Synthesis and Characterisation" presented in a National level conference on 76th Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 18-Jan-2013 to 19-Jan-2013.
6. "Preparation of Roof Tiles using Waste Glass" presented in a National level conference on 76th Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 18-Jan-2013 to 19-Jan-2013.
7. "Comparison between Normal and Microwave Calcination on γ -TCP using SBF" presented in a National level conference on 3rd National Conference on Quality Control in Metallurgical Industries, organised by PSG College of Technology, India from 01-Feb-2013 to 02-Feb-2013.
8. "Synthesis of Aluminium Borate Whisker by Sol-Gel Process using Nickel Oxide Additive" presented in a National level conference on 77th Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 19-Dec- 2013 to 20-Dec-2013.
9. "Preparation of Titania/Ceria-Titania Coated Clay Pellets and its suitability in Water Purification" presented in a National level conference on 77th Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 19-Dec-2013 to 20-Dec-2013.
10. "Preparation of Porous TCP/Alumina Composite and its Characterization" presented in a National level conference on 77th Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 19-Dec-2013 to 20-Dec-2013.
11. "Influence of Nickel Oxide Additive on the Properties of Sol-Gel Prepared Aluminum Borate Whisker" presented in a International level conference on International conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments , organised by Ponjesley College of Engineering, India from 07-Mar-2014 to 08-Mar-2014.
12. "Effect of Addition of Nano Zirconia in Ceramic Glazes" presented in a International level conference on International conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments , organised by Ponjesley College of Engineering, India from 07-Mar-2014 to 08- Mar-2014.

13. "Environmental Barrier Coating for C/SiC Ceramic Matrix Composites by using Chemical Vapour Infiltration" presented in a National level conference on National Conference on Trends and Innovations in Mechanical Engineering, organised by Dr.M.G.R Educational and Research Institute University, India from 04-Apr-2014.
14. "Cobalt Doped Titania Coated Clay Substrates for Water Purification" presented in a International level conference on International Conference on Ceramic and Advanced Materials for Energy and Environment, organised by Indian Ceramic Society, India from 14-Dec-2015 to 17-Dec-2015.
15. "Synthesis and Characterization of Substituted Hydroxyapatite using Sea Shells" presented in a International level conference on International Conference on Energy, Environment and Engineering, organised by Dept. of Chemistry & Dept. of Mechanical Engg, Coimbatore Institute of Technology, India from 29-Feb-2016 to 02-Mar-2016.
16. "Development of Vitrified Grinding Wheel with Low Temperature Bond" presented in a International level conference on 3rd International Conference on Developments in Science, Management and Engineering, organised by International Organization of Scientific Research and Development, India from 15-Apr-2016 to 16-Apr-2016.
17. "Fabrication of solar Powered Drier for Ceramic Industry" presented in a International level conference on International Conference on Ceramics, Glass and Refractories - Emerging Innovations, organised by Indian Ceramic Society, India from 12-Dec- 2016 to 15-Dec-2016.
18. "Effect of Brachyura Shell in Red Clay Tile" presented in a International level conference on International Conference on Ceramics, Glass and Refractories - Emerging Innovations, organised by Indian Ceramic Society, India from 12-Dec- 2016 to 15-Dec-2016.
19. "Synthesis of Wollastonite from Waste Eggshells and Rice Husk, and its Utilisation in Plaster Mould for Metal Casting" presented in a International level conference on International Conference on Ceramics, Glass and Refractories - Emerging Innovations, organised by Indian Ceramic Society, India from 12-Dec- 2016 to 15-Dec-2016.
20. "Development of Packed Column with Porous Silicate Medium for Effluent Treatment" presented in a International level conference on International Conference on Ceramics, Glass and Refractories - Emerging Innovations, organised by Indian Ceramic Society, India from 12-Dec- 2016 to 15-Dec-2016.
21. "Using Surface Coated of Bauxite:Enhancing the Properties in Conventional Castables"

presented in a International level conference on 2nd International Conference on Alumina and Other Functional Ceramics, organised by Indian Ceramic Society, India from 15.02.2017 to 17.02.2017.

22. " A Study on Cenosphere as Thermal Insulating Material", presented in a National level conference on 82nd Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 9-Jan-2019 to 11-Jan-2019.
23. " Influence of Porous Configuration on Dielectric and Piezoelectric Properties of KNN-KBT Lead Free Ceramic", presented in a National level conference on 82nd Annual Session of Indian Ceramic Society, organised by Indian Ceramic Society, India from 9-Jan-2019 to 11-Jan-2019.
24. "Study of Adhesion Behavior and Microstructure of Hydroxyapatite coated Ti-6Al-4V", presented in National conference on Innovations and Technologies for Ceramics(InTec-2019), organized by CSIR-NIIST, India from 11-Dec-2019 to 12-Dec-2021.
25. "Porous Nano-HAP scaffolds using alumina hollow spheres", presented in International conference on Nanotechnology: Ideas, innovations & Initiatives, organized by Syed Ammal Engineering College, Ramanathapuram, India from 12-Dec 2019 to 14-Dec 2019.
26. "Mechanical properties of hydroxyapatite prepared by mechano chemical method using dolomite", presented in CONCEPT-2020: National Conference on Current & Emerging Process Technologies, organized by Kongu Engineering College, Erode, India on 25-Jan-2020.

Publication Details: (Provide only the count)

Category	Conferences	Journals
National	13	-
International	13	14

Ph D / MS / M Tech / B. Tech Guidance

Ph. D Supervisor Registration Number:

Category	Completed	Ongoing
Ph. D	2	8
M. S (By Research)	-	-

S.No.	Title	Scholar Name	Completed Year / Ongoing
1.	Synthesis and Characterization of Mesoporous Titania for Sensor Applications	P.Reena	Completed 2020
2.	Synthesis of bioceramic composite material for medical applications and its characterization	S.Aarthy	Completed 2020
3.	Studies on Hydroxyapatite Ceramics for Biological Applications	A.Nanthini	Ongoing
4.	Study on Performance Enhanced Porous Hydroxyapatite for Bone Replacement	J.Rohan	Ongoing
5.	Enhancing the Properties of Refractory Castables by varying the Aggregates and Additives	M.Krishnan	Ongoing
6.	Preparation of Nano Spherical Graphite Particles for Electrical Devices and Applications	K.Muthupandi	Ongoing
7.	Cenosphere and its Applications	N.Anitha	Ongoing
8.	Utilizing Agro Waste in Triaxial Ceramics	R.Elumalai	Ongoing
9.	Novel Ceramic Composites for High Performance Applications	R.Manikandan	Ongoing
10.	Studies on Lead Free Porous Piezoelectric Ceramics	Evelyn Derina Pinheiro	Ongoing

M Tech / B. Tech Guidance

Category	Completed	Ongoing
M. Tech	52	-
B. Tech	53	-

Guest lecturers delivered

Title	Duration	Programme	Venue
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Awards and Recognitions

- "Tmt.Rajammal Vadivel Endowment Prizes " given by Annamalai University (1997).
- "RM.Bairavan & PL.Sabarathinam Prizes Endowment" given by Annamalai University (1998).
- "Second Prize" given by 75th Annual Session of Indian Ceramic Society, Agra (2011).
- "Second Prize " given by 77th Annual Session of Indian Ceramic Society, Jamshedpur (2013).
- "Best Paper Award" given by 3rd International Conference on Developments in Science, Management and Engineering, Trichy (2016).

Academic Responsibilities

- Entrepreneurship Development Cell-Department Coordinator, Department of Ceramic Technology, Alagappa College of Technology, Anna University, Chennai.
- Additional Chief Superintendent, Alagappa College of Technology, Anna University, Chennai.
- Chief Superintendent for PG Examinations, Department of Ceramic Technology, Alagappa College of Technology, Anna University, Chennai.

Workshops / Seminar / Short term Courses / FDP Organized

Role	Name of the Programme	Duration
Co-ordinator	National Seminar on "Porous Ceramics"	27.05.2016 to 28.05.2016
Co-ordinator	National Seminar on "Refractories: Materials, Installation and Applications"	05.10.2016
Co-ordinator	National Seminar on "Ceramic Coatings"	13.03.2017
Co-ordinator	National Seminar on "Ceramic Composites"	22.09.2017

Co-ordinator	National Seminar on “Application of Ceramic and Polymer in 3D Printing”	16.03.2019
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Workshops / Seminar / Short term Courses / FDP Attended

S. No	Name of the Event	Duration	Organized by
1	Modern Teaching Competencies	05.08.2002 - 19.08.2002	Anna University
2	Orientation Training Programme on Re-engineering Teaching Skills	03.05.2005 - 05.05.2005	Centre for Faculty Development, Anna University
3.	Workshop on Service to Community	25.03.2006	Department of Mechanical Engg., CEG, Anna University
4.	Nanomaterials : Properties and Applications	02.12.2006 - 03.12.2006	NIT, Tiruchi
5.	Training Programme on Digital Skills	29.01.2008 - 31.01.2008	Centre for Empowerment of Women, Anna University
6.	Workshop on Thesis Writing for Research Scholars	04.12.2008 - 05.12.2008	Centre for Empowerment of Women, Anna University
7.	National Conference on Materials Science	09.10.2009 - 10.10.2009	Annamalai University
8.	International Workshop on Advances in Nanoscience and Technology	28.10.2009 - 30.10.2009	Anna University

9.	Mission 10X – Faculty Empowerment Program	21.06.2010 - 25.06.2010	Department of IT, MIT, Anna University
10.	E-content Development Skills for Teachers	15.09.2010	Dept.of Media Science, Anna University
11.	Advanced Level Workshop on Mission 10X – Faculty Empowerment Program	15.11.2010 - 16.11.2010	Department of IT, MIT, Anna University
12.	International Workshop on Advanced Functional Nanomaterials	21.02.2011 - 24.02.2011	CNT, CGC & CIA, Anna University
13.	One day Workshop on Teaching Skills and Smart Classroom Tools	07.01.2013	Centre for Faculty Development, Anna University
14.	UGC XII Plan Sponsored One Day Awareness Programme on Internal Quality Assurance	22.03.2013	ACT Campus, Anna University
15.	International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments	08.03.2014	Ponjesley College of Engineering, Nagercoil
16.	International Conference on Multidisciplinary Research & Practice	30.11.2014	ATIRA Campus, Ahmedabad
17.	UGC Sponsored - Refresher Course in Nanoscience (Interdisciplinary)	17.11.2015 - 07.12.2015	University of Madras, Chennai
18.	Quality Improvement Programme on 'Student Evaluation and Question Paper Setting'	21.09.2016 - 23.09.2016	College of Engineering, Anna University

19.	Seminar on Refractory: Materials, Installation and Applications	05.10.2016	Department of Ceramic Technology, A.C.Tech, Anna University
20.	GIAN course on 'Sintering & Sintering-Free Processing of Ceramics and Microstructural Development'	02.01.2017 - 08.01.2017	IIT-Madras, Chennai
21.	National Seminar on 'Ceramic Coatings'	13.03.2017	Department of Ceramic Technology A.C.Tech, Anna University
22.	GIAN course on 'Biomaterials & Nanomedicine: Two Emerging Topics in Public Healthcare in the 21st Century'	12.09.2017 - 16.09.2017	Anna University, Chennai
23.	One day Seminar on 'Ceramic Composites'	22.09.2017	Department of Ceramic Technology A.C.Tech, Anna University
24.	GIAN course on 'Advanced X-ray Diffraction Techniques for the Characterization of Materials'	17.01.2018 - 28.01.2018	Anna University, Chennai
25.	Workshop on 'Intellectual Property Rights 2018'	01.02.2018	Centre for Intellectual Property Rights, Anna University
26.	Workshop on ' Training Programme on Importance of Assessment, Accreditation and Ranking in Higher Education Institutions'	27.11.2018 - 28.11.2018	Internal Quality Assurance Cell, Anna University
27.	One day Seminar on 'Application of Ceramic & Polymer in 3D Printing'	16.03.2019	Department of Ceramic Technology A.C.Tech,

			Anna University
28.	One day National Workshop on e-Learning and MOOCs in Higher Education	14.09.2019	Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi & Anna University
29.	NPTEL Course on ‘Medical Biomaterials’	24.02.2020 - 17.04.2020	IIT-M
30.	Online Two Week Faculty Development Programme on ‘Multimedia and Drawing’	03.06.2020 - 16.06.2020	Government First Grade College, Harihara, Karnataka
31.	Coursera course on ‘Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading’	20.06.2020 - 25.07.2020	Georgia Institute of Technology, Atlanta
32.	Coursera course on ‘Advanced Functional Ceramics’	04.01.2021 - 04.02.2021	Yonsei University, South Korea
33.	Webinar on ‘Industrial Practice of Refractories and High-Temperature Ceramics: Testing and Characterization’	22.03.2021 - 23.03.2021	IIT-BHU & IRMA

Countries visited

Name of the country	Duration	Purpose of visit
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Membership, Committees, Boards etc

- Life Member of Indian Ceramic Society
- Executive Committee member of A.C.Tech Alumni Association

Other Interest

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