
EROMOSELE Ighodalo Clement

Degree: B.Sc., M.Sc., Ph. D., FICCON

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Department: Chemistry

Academic Rank: Professor

Current position:

Research Interest:

- Ionic and free radical polymerization of vinyl monomers
- Polymer stabilization.
- Local raw materials sourcing & studies on local fibres.
- Graft copolymerization reactions
- Environmental chemistry.



DETAILED RESUME

ACADEMIC DEGREES WITH DATE

- Ph.D Polymer Chemistry (Dublin) - 1985
 - M.Sc Polymer & Fibre Science (UMIST) - 1981
 - B.Sc. (Hons) Biochemistry - 1977
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INSTITUTIONS ATTENDED WITH DATE

- University of Dublin, Trinity College, Dublin, Ireland - 1981-1985
 - University of Manchester Inst. Of Science & Technology,
Manchester (UMIST) England - 1979-1981
 - University of Ibadan, Ibadan, Nigeria - 1974-1977
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MEMBERSHIP OF PROFESSIONAL BODIES

- Certificate in Office Management (with distinction) - 1981
 - Member, Plastics & Rubber Institutes (MPRI), London - 1986
 - Associate member, Institute of Administrative Management
(M. Inst, AM) London - 1981
 - Member, Chemical Society of Nigeria - 1996
 - Member, Polymer Institute of Nigeria - 1996
 - Fellow, Institute of Chartered Chemists of Nigeria - 2007
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PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITIONS.

- Study Fellowship Award by Rubber Research Institute of Nigeria Benin City for
Masters degree in Polymer & Fibre Science - 1979
- Federal Government of Nigeria Scholarship Award for a Doctorate degree
in Polymer Chemistry - 1983

COURSES TAUGHT

- Introduction to Rubber Technology
- Petrochemistry
- Industrial Chemical Processes
- Polymer Chemistry
- Heterocyclic Chemistry
- Carbohydrate Chemistry
- Amino, Acids, proteins and Nucleic Acids
- Aromaticity
- Industrial Chemistry Laboratories
- Lipid Chemistry
- Introduction to Physical properties of Polymers
- Polymer Technology
- Physical Organic Chemistry & Reaction Mechanisms

COURSES TAUGHT AT THE POSTGRADUATE LEVEL

- Polymer Science
- Polymer Technology

SOME PROJECTS SUPERVISED (Undergraduate)

- Graft Copolymerization of Ethymethacrylate on Kraft pulp of Gmelina alborea
- Graft Copolymerization of methylmethacrylate on Caesarweed fibre (Urena lobata) by potassium permanganate Toluene redox pair.
- Studies on the Chemical composition on wild fruits
- Evaluation of the total nutritional status of some local animal feeds.
- Studies on the chemical composition of some plant foods.
- The sorption of heavy metal ions by Cellulosic materials
- Free-radical polymerization of Acrylic acid: a polymer for interpenetrating network based on polyurethanes.
- Characterization of seed oils.
- Graft copolymerization of acrylic acid onto cotton by ceric ammonium sulphate
- Analyses of the biochemical composition of selected seeds
- Molecular weight properties of polyacrylonitrile polymerized by ceric ammonium sulphate – thioacetamide redox system
- Graft Copolymerization of acrylic acid onto cotton by potassium permanganate – Oxalic acid redox system.
- Graft Copolymerization of acrylonitrile on cotton by potassium permanganate – thioacetamide redox pair

- Determination of the asorbic acid contents of selected Sub-Sahel fruits.
- Effects of cations on Graft copolymerization of acrylonitrile/acrylic acid on cotton.
- Graft Copolymerization of methacrylonitrile on kenaf fibres
- Studies on Local Seed Oils
- Sorption of heavy metal ions from non-aqueous solvents
- Bleaching characteristics of local seed oils
- The Physico-Chemical properties of some local cellulosic fibres.
- Adsorption of metal ions from Aqueous and non-aqueous solutions by Shea butter seed husks.
- Graft Copolymerization of acrylic acid on Cassarweed fibres by Ceric ion thioacetamide reedox system
- Studies on some Seeds and Seed Oils.

POSTGRADUATE SUPERVISION (Completed)

- **Popoola**, Saheed Abiodun, M.Sc, 2009: Studies on Seeds, Seed Oils and Alkyd Resin Derivatives of *Pterocarpus santalinoids* and *Manihot esculenta*.
- **Barminas**, Jeffery Tsware, Ph.D, 2004: Studies on Solution Behaviour of "Konkoli" (*Maesopsis emini*) seed Gum.
- **Yusuf**, Abolanle Adekunle, Ph.D, 2007: Structural, Physico-Chemical and Rheological Properties of the Exudate Gum of *Berlinia grandiflora*, Hutch & Daiz.
- **Folarin**, Olujimi Moses, Ph.D 2008: Thermal stabilization of Poly (vinylchloride) by *Ximenia americana* (Wild Olive) and *Balanites aegyptiaca* (Betu) Seed Oils and their Derivatives.

RESEARCH CONDUCTED

PUBLICATIONS

A. DISSERTATION AND THESIS

1. **I.C. Eromosele** (1981) Formation and Properties of Polyurethane Elastomers. M.Sc. Dissertation, Manchester.
2. **I.C. Eromosele** (1985), Anionic Polymerization of n-Butyl -2- cyanoacrylate by Tetrabutylammonium Acetates, Bromide and Hydroxide. Ph.D Thesis, Dublin.

B. REFEREED JOURNAL PUBLICATIONS

1. **I.C. Eromosele, D.C. Pepper (1986).** Free and paired-ion propagation in the polymerization of n-butylcyanoacrylate by tetrabutylammonium salts. Makromol. Chem. Rapid Commu. 7 639 – 643
<http://www3.interscience.wiley.com/journal/117932056/grouphome>
2. **I.C. Eromosele, D.C. Pepper (1986),** The possibility of oxonium/carbenium ion initial cations in the zwitterionic polymerization Makromol. Chem. Rapid Commu. 7. 531 - 532. <http://www3.interscience.wiley.com/journal/117932056/grouphome>
3. **I.C. Eromosele, D.C. Pepper (1987),** Anionic polymerization for n-butyl isocyanate by sodium cyanide J. Polym. Sci. Part A polym. Sci. Part A Chem. 25, 3499-3503
4. **I.C. Eromosele, D.C. Pepper and B. Ryan (1989),** Water effects on the zwitterionic polymerization of cyanoacrylates. Makromol. Chem. 190, 1613-1622.
<http://www3.interscience.wiley.com/journal/117932056/grouphome>
5. **I.C. Eromosele, D.C. Pepper (1989),** Anionic polymerization of butylcyanoacrylate by tetrabutylammonium salt Part I: Initiation processes. Makromol. Chem. 190, 3085-3095. <http://www3.interscience.wiley.com/journal/117932056/grouphome>
6. **I.C. Eromosele, D.C. Pepper (1989),** Anionic Polymerization of butylcyanoacrylate by tetrabutylammonium salt Part II: Propagation rate constants. Makromol. Chem. 190, 3095-3103. <http://www3.interscience.wiley.com/journal/117932056/grouphome>
7. **I.C. Eromosele, (1991),** Effect of acetic acid on polymerization of Butylcyanoacrylate by tetrabutylammonium acetate in tetrabutylammonium. J. Makromol. Sci. Chem. A 28 (3 & 3), 347-358. <http://www3.interscience.wiley.com/journal/117932056/grouphome>

8. **I.C. Eromosele**, C.O. Eromosele, and D.M. Kuzhkuzha (1991), Evaluation of mineral elements and ascorbic acid content in fruits of some wild plants. *Plant Foods for Hum. Nutri.* 41, 151-154. <http://www.springer.com/food+science/journal/11130>
9. **I.C. Eromosele**, (1992), Aqueous polymerization of acrylonitrile by ceric ammonium sulphate and thioacetamide redox system. *J. Tech. & Dev.* 2(1), 83-92.
10. **I.C. Eromosele**, C.O. Eromosele (1993), Studies on the chemical composition and physico-chemical properties of seeds of some wild plants. *Plant Foods for Hum. Nutri.* 43, 251-258. <http://www.springer.com/food+science/journal/11130>
11. **I.C. Eromosele**, T.J. Hamagadu (1993), Graft copolymerization of methylmethacrylate onto caesarweed fibres by potassium permanganate – toluene redox system. *J. Appl. Polym. Sci.* 50(4), 645-649. <http://www3.interscience.wiley.com/journal/30035/home>
12. J.N. Egila, **I.C. Eromosele**, I.H. Andenyang and M. Imam (1994), Ground water quality of some local government area of Adamawa state, *J. Tech. & Dev.* 5, 13-16
13. **I.C. Eromosele**, (1994), Graft copolymerization of acrylonitrile on cotton cellulose by potassium permanganate and thioacetamide redox system. *J. Appl. Polym. Sci.* 51(10) 1817-1621. <http://www3.interscience.wiley.com/journal/30035/home>
14. **I.C. Eromosele**, O.O. Otitolaye (1994), Binding of Iron zinc and lead ions from aqueous solutions by shea butter (*Butyrospermum parkii*) seed Husks. *Bull. Environ. Contam. Toxicol.* 52(4), 530-537.
15. **I.C. Eromosele**, C.O. Eromosele, A.O. Akintoye and T.T. Komolafe, (1994), Characterization of oils and chemical analyses of seeds of wild plants. *Plants Foods for Hum. Nutri.* 46. 361-365. <http://www.springer.com/food+science/journal/11130>

16. **I.C. Eromosele**, (1994), Graft copolymerization of acrylic acid onto caesarweed fibres by ferric ion – toluene redox pair J. Appl. Polym. Sci. 53(13), 1709-1715.
<http://www3.interscience.wiley.com/journal/30035/home>
17. C.O. Eromosele , **I.C. Eromosele**, S.L.M. Mukar and S.A. Birdling (1995), Metals in fish from the Upper Benue River, Lakes Geriyo and Njuwa of the Northeastern Nigeria. Bull Environ. Contam. Toxicol. 54(1), 8 – 14.
18. **I.C. Eromosele**, R.B. Ahmed (1995), Graft copolymerization of methacrylonitrile onto kenaf fibres by ferric ion – toluene redox pair. J. Appl. Polym. Sci. 59, 1987-1993.
<http://www3.interscience.wiley.com/journal/30035/home>
19. **I.C. Eromosele**, C.O. Eromosele, J. Orisakiya and S. Okufi (1996), Binding of copper and chromium ions by shea butter (*Butyrospermum Parkii*) seed husks. Bioresource Technol. 58(1), 25-29. <http://www.sciencedirect.com/science/journal/09608524>
20. **I.C. Eromosele**, (1999), Polyurethane elastomers based on polybutadiene and polyacrylonitrile copolymer diol. Global J. Pure & Appl. Sci. 5(1) 73-78.
21. C.O. Eromosele, I.U. Agbo and **I.C. Eromosele** (1989), Phytochemical studies and Therapeutic status of some species of Acalypha. Proceeding of the International Conference on 3rd World Strategies for Technological Development, held in Yola, 20 – 26 August, Pp. 579-58.
22. **I.C. Eromosele**, and L.D. Abare (1980), Sorption of iron and zinc ions from non-aqueous solutions by shea butter (*Butyrospermum parkii*) seed husks. Bioresource Technol. 66(2), 129-132. <http://www.sciencedirect.com/science/journal/09608524>
23. **I.C. Eromosele**, C.O. Eromosele, P. Innazo and P. Njerim (1998), Studies on some seeds and seed oils. Bioresource Technol. 64(3) 245-247.
<http://www.sciencedirect.com/science/journal/09608524>

24. **I.C. Eromosele**, and A. Kolapo (1998), Graft copolymerization of acrylic acid onto caesarweed fibres by ceric ion-thioacetamide redox pair. *Iranian Polym. J.* 7(3), 143-147
25. **I.C. Eromosele**, G.K. Njaprim, J.O. Ajayi, and U. Modibbo (1997). Characterization of cellulosic fibres. *J. Appl. Polym. Sci.*, 73, 2057-2060.
<http://www3.interscience.wiley.com/journal/30035/home>
26. **I.C. Eromosele**, (1997). "Biochemical and nutritional characteristics of seed oils from wild plants". Proceedings of the 2nd International Workshop on African pear improvement and other new sources of vegetable oils Ngaoundere, Cameroon., Pp. 203-208
27. **I.C. Eromosele**, I. Amadou & J.U. Ijomah (1999) Chemical composition of Nigerian forage. *Global J. Pur. & Appl. Sci.* 5(4), 493-496
28. **I.C. Eromosele**, and S.S. Bayero, (1999). Graft copolymerization of acrylonitrile on kenaf fibres by ceric ion in the presence of allyl compounds. *J. Appl. Polym. Sci.*, 73, 1757-1761. <http://www3.interscience.wiley.com/journal/30035/home>
29. **I.C. Eromosele**, and A. Agbo (1999). Grafting acrylonitrile on kenaf fibres using ceric ion-p-xylene redox pair. *J. Appl. Polym. Sci.* 73. 1751-1755.
<http://www3.interscience.wiley.com/journal/30035/home>
30. **I.C. Eromosele**, and S.S. Bayero (2000). Adsorption of chromium and zinc ions from aqueous solutions by cellulosic graft copolymers. *Bioresource Technol.* 71, 279-281.
<http://www.sciencedirect.com/science/journal/09608524>
31. **I.C. Eromosele**, and E.O. Egunsola (2000). Studies on the physical properties of some cellulosic fibres. *J. Appl. Polym. Sci.* 75(1), 175-177.
<http://www3.interscience.wiley.com/journal/30035/home>

32. **I.C. Eromosele**, and M.L. Solomon (2000) Graft copolymerization of acrylonitrile on caesarweed fibres by ceric ion in the presence of isobutylalcohol. *Nig. J. Polym. Sci.* 1(1), 30-33
33. **I.C. Eromosele**, C.O. Eromosele and H.K. Zanna (2002). Graft copolymerization of acrylic acid on methylcellulose by ceric ion-p xylene redox pair. *J. Appl. Polym. Sci.* 84, 500-504. <http://www3.interscience.wiley.com/journal/30035/home>
34. C. O. Eromosele, and **I. C. Eromosele** (2002), Fatty acid composition of seed oils of *Haematostaphis barteri* and *Ximenia americana* *Bioresource Technol.* 82, 303-304. <http://www.sciencedirect.com/science/journal/09608524>
35. J.T. Barminas and **I.C. Eromosele**, (2002). Rheological properties and potential industrial application of konkoli (*Maesopsis eminii*) seed gum. In. *Gums and Stabilizers for the Food Industry 11* (Williams, P.A. and Phillips, G.O. Editors). The Royal Society of Chemistry, UK. Pp. 306-310
36. C.O. Eromosele, M. Oloye and **I.C. Eromosele** (2006) Graft copolymerization of methacrylonitrile on caesarweed fibres by ceric ion isopropanol redox pair *J. Appl. Polym. Sci.* 101(1), 353-358. <http://www3.interscience.wiley.com/journal/30035/home>
37. C. O. Eromosele, L. A. Arogundade, **I. C. Eromosele** and O. Ademuyiwa (2008). Extractability of African yam bean (*Sphenostylis sternocarpa*) protein in acid Salt and alkaline aqueous media. *Food Hydrocolloids* 22: 1622-1628. www.elsevier.com/locate/foodhyd
38. C. O. Eromosele, Q. O. Afolabi and **I. C. Eromosele** (2008). Graft copolymerization of acrylonitrile onto allylated caesarweed fibres ceric ion in the presence of 2-mercaptoethanol. *J. Appl. Polym. Sci.* 110(5) 2796-2801. <http://www3.interscience.wiley.com/journal/30035/home>
39. **I. C. Eromosele**, C. O. Eromosele, K. S. Ayinde and O. Adegoke (2008). Graft copolymerization of acrylic acid onto cocoyam starch by ceric ion in the Presence of N,

N'- Dimethylacetamide. J. Appl. Polym. Sci. 110(5) 2676-2680.
<http://www3.interscience.wiley.com/journal/30035/home>

40. **I. C. Eromosele**, C. O. Eromosele and D. O. Fumilayo (2008). Grafting of Acrylonitrile onto caesarweed fibres by potassium permanganate- N, N'- Dimethylacetamide redox pair. J. Appl. Polym. Sci. 110(5) 2671-2675.
<http://www3.interscience.wiley.com/journal/30035/home>

41. Arogundade L. A., Eromosele C. O., Ademuyiwa O. and Eromosele I. C. (2009). Aggregation profile, preparation and nutritional characterization of African yam bean (*Sphenostylis stenocarpa*) acid and salt protein isolates. Food Hydrocolloids, 23, 2294-2301. www.elsevier.com/locate/foodhyd

C. PAPERS PRESENTED AT VARIOUS FORA

1. **I.C. Eromosele**, "An enabling environment for sustainable national socio-economic development". Presented as a Guest Lecture to the Rotary Club of Jimeta, 17 August, 1996, Yola
2. **I.C. Eromosele**, C.O. Eromosele, "Polymer Science and Technology in National Development". Presented at the International Conference on 3rd World Strategies for Technological Development, 20 – 26, August, 1989, Yola.
3. **I.C. Eromosele**, "The Christian family in a distressed economy: an appraisal of the Nigerian experience" St. Augustine's Day Celebration Lecture: 29, August, 1997
4. **I.C. Eromosele**, "Socio-cultural Associations and the imperatives for Nigeria in Search of nationhood". Presented to the Imiava National Development Association, Yola Branch, December, 1996
5. **I.C. Eromosele**. "Socio-cultural Dimensions to National Development". Presented as a Keynote address at the School-child Wheelchair presentation ceremony organized by Common Heritage Foundation, Yola, 1st December, 1998.
6. **I.C. Eromosele**. "Nigerian Youth Development and the Challenges of the 21st Century" St. Augustine's Laity Week Celebration Lecture. 24th March, 1999.
7. **I.C. Eromosele**. Church Development and the Promotion of the Christian Faith. A Guest Lecture at the Appeal Fund Launching for Musical Instrument by St. Vincent Chaplaincy. FUT., Yola, 6, August, 2000.

8. **I.C. Eromosele**, The Imperatives for A Virile Chemical Industry In Nigeria. The 13th Inaugural Lecture of the University of Agriculture, Abeokuta, 30 January, 2002.
 9. **I. C. Eromosele**, " On the Need to Reconstruct Nigeria for Development".
Guest lecture to the Rotary Club of Abeokuta, 2006.
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