AKINLABI Akinola Kehinde**.**

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

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Department: Chemistry

Academic Rank: Lecturer I

Current position:

Research Interest: Natural rubber latex, coagula, crumb rubber and Gum Arabic

DETAILED RESUME

ACADEMIC DEGREES WITH DATE

- Ph. D - 2003
- M. Sc. - 1999
- MBA - 1997
- M. Sc. - 1995
- B. Sc. - 1991

INSTITUTIONS ATTENDED WITH DATE

- University of Benin, Nigeria. - 2003
- University of North London, UK - 1999
- University of Benin, Nigeria. - 1997
- University of Benin, Nigeria. - 1995
- University of Lagos, Nigeria. - 1991

MEMBERSHIP OF PROFESSIONAL BODIES

- Chemical Society of Nigeria (CSN).
- Polymer Institute of Nigeria (PIN).
- Institute of Chartered Chemist of Nigeria (ICCON),
- American Chemical Society (ACS),
- Institute of Materials London (IOM),
- Professional Association of Natural Rubber in Africa (ANRA).

PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITIONS.

- Biographee, International Biographical Centre, UK, (2004)
- Who is who in Igboora, Federation of Igboora Students' Union (2004)
- Outstanding researcher, Rubber Research Institute of Nigeria (2003)
- Outstanding scientist, French Government Postdoctoral fellowship (2003)
- ANRA fellow, Professional Association of Natural Rubber in Africa, (1999)

COURSES TAUGHT

RESEARCH CONDUCTED

PUBLICATIONS

1. **Akinlabi A. K.**, Olayinka O. M. and Dare E. O. The use of *Pterocarpus Santalinoide* in rubber compounding. *Scientific Research and Essay*. 4 (6),-- (accepted for publication and coming out by December 2009). www.scribd.com/doc/2742562/scientific-Research
2. Malomo D., **Akinlabi A. K**., Okieimen F. E. and Egharevba F. Influence of mixing schemes on ageing, swelling and permeability properties of vulcanizates from blends of natural rubber and low molecular weight natural rubber in petroleum fuels and organic solvents. *Chemical Industry & Chemical Engineering Quarterly (CI&CEQ)*. Already accepted for publication and coming out by December 2009. www.ache.org.rs/CICEQ/index2.htm
3. Nurudeen A. Oladoja and **Akinola K. Akinlabi**. Congo red biosorption on palm kernel seed coat. *Industrial Engineering Chemical Research* 48, 6188 -6196 (2009). http://pubs.acs.org/journal/iecred
4. Malomo D., **A. K. Akinlabi**, Okieimen F. E. and Egharevba. Physico-mechanical, aging properties and permeability of ketones through vulcanizates from epoxidized low molecular weight natural rubber blends prepared from different mixing schemes. *International Journal of Polymeric Materials* 56: 1023 – 1039, (2007). www.ingetaconnect.com/content/tandf/gpom
5. **Akinlabi A. K.** An improvement on quality measurement parameters of crumb natural rubber. *Journal of Polymer Materials.* 24(2); 193; *(2007).* www.hindawi.com/journals/ijps/2009/906904.html.
6. **Akinlabi A. K.**, Malomo D., Okieimen F. E., Egharevba F. and Oladoja N. A. Physico-mechanical, ageing, swelling, permeability properties and molecular transport of petroleum fuels and organic solvents through vulcanizates from thioglycollic acid modified epoxidized low molecular weight natural rubber blends prepared with different

compounding mixing schemes. *Journal of Polymer Materials.* 24(2); 207; *(2007).* www.hindawi.com/journals/ijps/2009/906904.html

7. Okwu U. N. and **Akinlabi A. K.** Production of low viscosity natural rubber: comparative assessment of a non- chemical route. *Journal of Applied Polymer Science*. 106(2): 1291-1293, (2007). www3.interscience.wiley.com/journal/114803744/issue

8. **Akinlabi A. K.,** Okieimen F. E., Okwu U. N. and Oladoja N. A. Thermal aging properties and molecular transport of solvents through vulcanizates prepared from thioglycollic acid modified epoxidized low molecular weight natural rubber blends filled with admixtures of carbon black and carbonized rubber seed shell. *Chemical Engineering Communications* 194(1): 1-17 (2007). www.ingentaconnect.com/content/tandf/gcec

9. **Akinlabi A. K.,** Okieimen F. E., Okwu U. N., and Oladoja N. A. Properties of vulcanizates from blends of natural rubber and thioglycollic acid modified epoxidized low molecular weight natural rubber filled with carbonized rubber seed shell. *Journal of Applied Polymer Science,* 104(5): 2830-2838 (2007). www3.interscience.wiley.com/journal/114803744/issue

10. **Akinlabi A. K**., Okieimen F. E., Momodu I. and Oyenekan O. M. The use of modified low molecular weight natural rubber as an anti-degradant in rubber compounding. *Institute of Public Analyst of Nigeria Quarterly News.* 8(31); 12 – 17. July – Sept 2007.

11. **Akinlabi A. K.** Influence of carbonized rubber seed shell as fillers on vulcanizates from blends of natural rubber and epoxidized low molecular weight natural rubber. *Progress in Rubber, Plastics and Recycling Technology.* 23(1): 57 - 72 (2007). www.scimagojr.com/journalsearc.php?q=14228&tip=sid...O-A

12. **Akinlabi A. K.**, Malomo D., Okieimen F. E. and Egharevba F. Effect of mixing schemes on physico-mechanical, aging properties and permeability of aldehydes through blends of natural rubber and low molecular weight natural rubber. *International Journal of Polymeric Materials.* 56(3): 273-289 (2007). www.informaworld.com/smpp/title~content=t713454788~db=all

13. **Akinlabi A. K.**, Malomo D., Okieimen F. E., Egharevba F. and Oladoja N. A. Influence of mixing schemes on aging and permeability of ketones through vulcanizates from

low molecular weight natural rubber blends. *'Progress in Rubber, Plastics & Recycling Technology'. by Rapra Technology Ltd UK. 23(2):135 - 152* (2007). www.scimagojr.com/journalsearc.php?q=14228&tip=sid...O-A

14. Asia I. O., Egbon E. E. and **Akinlabi A. K.** Studies in the vulcanizate properties of blends of epoxidized natural rubber and polypropylene. International Journal of Chemistry. 16(2), 89 -95, (2006). www.ccsenet.org/journal/index.php/ijc/

15. **Akinlabi A. K.**, F. E. Okieimen, F. Egharevba and D. Malomo. Investigation of the effect of mixing schemes on rheological and physico-mechanical properties of modified natural rubber blends. *Materials and Design, 27*, 783 - 788 (2006). www.elesevier.com/locate/matdes

16. Asia I. O., **Akinlabi A. K.** and Egbon E. E. Cure characteristics and physico mechanical properties of blends of epoxidized natural rubber and polystyrene. *Pakistan Journal of Scientific and Industrial Research*. 49 (6), 383 – 387; Nov/Dec. 2006. www.pjsir.org/documents/journal/2705009151503/pjsir49-2-06abs.pdf

17. **Akinlabi A. K.,** Okwu U. N., Aigbodion A. I., Momodu I. Asia I. O., Ohaga S. Ogbebor O. J., Egbuson P., Ayeke P., Azikiwe I. Y., Wilson O. and Ohimai M. Effect of different coagulating systems of natural rubber latex on properties of crumb rubbe**r.** *Advances in Natural and Applied Science Research.* 4, p. 54 - 62 (2006).

18. **Akinlabi A. K.,** Okieimen F. E., Okwu U. N., and Oladoja N. A. Resistance of vulcanizates prepared from modified low molecular weight natural rubber blends filled with mixtures of carbon black and carbonized rubber seed shell in petroleum fuels and organic solvents. *International Journal of Polymeric Materials.* 55(12), 1095 - 1114 (2006). www.ingentaconnect.com/content/tandf/gpom

19. **Akinlabi A. K.,** Okieimen F. E., Egharevba F., Okwu U. N., Malomo D., Asia I. O., Egbon E. E., Momodu I. and Ohaga S. Properties of vulcanizates from blends of natural rubber and low molecular weight natural rubber filled with carbonized rubber seed shell. *Chemtec Journal* 1, 76-88 (2005).

20. Aigbodion A. I., Bakare I. O., Okieimen F. E. and **Akinlabi A. K.** Preliminary investigations in the synthesis and characterization of maleinized rubber seed oil. *Chemtec Journal* 1, 1-9 (2005).

21. **Akinlabi**, **A. K**., Aigbodion A. I., Akpaja E. O. Bakare I. O and Akinlabi J. O. Characterization of natural rubber latex from mistletoe infested *Hevea* trees of NIG 804 clones. *Journal of rubber research Malaysian* 8(3) 154 - 160 (2005). www.myais.fsktm.um.edu.my/434/

22. Malomo D., Egharevba F., **Akinlabi A. K**. and Okieimen F. E. Comparison of different mixing schemes of natural rubber. *Chemtec Journal* 1, 40- 47 (2005).

23. Ehabe E, Bonfils F., Aymard C, **Akinlabi A. K**. and Sainte Beuve J., Modelling of Mooney Viscosity Relaxation in Natural Rubber. *Polymer Testing*. 24, 620 – 627 (2005). **This paper was rated among the Top 25 hottest article under sciencedirect.com. in 2005.** www.sciencedirect.com/science/journal/01429418

24. **A. K. Akinlabi**, F. E. Okieimen, F. Egharevba and D. Malomo. Studies on the processing and vulcanizate properties of modified natural rubber blends using different mixing schemes. *Journal of Polymer materials, India*. 22, 227-234 (2005). www.hindawi.com/journals/ijps/2009/906904.html

25. **A. K. Akinlabi,** F. E. Okieimen and A. I. Aigbodion. Thermal aging properties and chemical resistance of blends of natural rubber and epoxidized low molecular weight natural rubber. *Journal of Applied Polymer Science.* 98, 1733-1739 (2005). www3.interscience.wiley.com/journal/11483744/issue

26. **A. K. Akinlabi,** Bonfils F, Sainte-Beuve J. and Ohaga S. Critical assessment of crumb rubber using classical normalized parameters and mesostructure analysis. *Nigerian Journal of Applied Science 22, 48 – 57* (2004).

27. **A. K. Akinlabi**, F. E. Okieimen, F. Egharevba and D. Malomo. Studies in the swelling properties of vulcanizates from blends of modified natural rubber compounded with different mixing schemes. *Nigerian Journal of Applied Science 22*, 262 - 270 (2004).

28. **A. K. Akinlabi**, F. E. Okieimen and A. I. Aigbodion. Diffusion and permeability of aldehydes into blends of natural rubber and chemically modified low molecular weight

natural rubber. *Polymers for Advanced Technology*.16; 1-5 (2005). www.journalseek.net/cgi-bin/journalseek/journalsearch.cgi

29. **A. K. Akinlabi.,** Bonfils F and Sainte-Beuve J. Viabilities in the Physico-chemical parameters of SAR 10 Crumb Rubber. *Journal of the Chemical Society of Nigeria (supplement)*. 27th CSN conf. p. 282 – 286 (2004).
30. **A. K. Akinlabi**, and Okieimen F. E. Solvent resistance and thermal aging properties of blends of natural rubber and epoxidized low molecular weight natural rubber. *Journal of the Chemical Society of Nigeria (supplement)*. 27th CSN conf. p. 293 – 300 (2004).
31. **A. K. Akinlabi,** Okieimen F. E. and Aigbodion A. K. Permeability of Aldehydes into blends of natural rubber and chemically modified low molecular weight natural rubber. *Journal of the Chemical Society of Nigeria (supplement)*. 27th CSN conf. p. 311 – 317 (2004).
32. F. E. Okieimen, **A. K. Akinlabi**, A.I. Aigbodion and I.O. Bakare. - Processing characteristics and physico-mechanical properties of thioglycollic acid modified epoxidised low molecular weight natural rubber and its blends with natural rubber. *Journal of Polymer Material*. 20(4) 403 (2003). www.hindawi.com/journals/ijps/2009/906904.html
33. **A.K. Akinlabi**, and E. E. Egbon – Investigations into factors affecting production of quality crumb rubber in Nigeria. *Advances in Natural and Applied Science Research.* 1(1); 166 (2003).
34. E. E. Egbon, **A.K. Akinlabi**, and I. O. Asia – Cure characteristics and physico-mechanical properties of blends of epoxidized natural rubber and polystyrene. *Advances in Natural and Applied Science Research*. 1(1); 176 (2003).
35. F.E.Okieimen, **A.K. Akinlabi,** A.I. Aigbodion, I. O. Bakare and N.A.Oladoja. Effects of epoxidised low molecular weight natural rubber products on the vulcanizate properties of natural rubber. *Nigerian Journal of Polymer Science and Technology*. 3(1) 223 (2003).
36. F. E. Okieimen and **A.K. Akinlabi** Processing characteristics and physico-mechanical properties of natural rubber and liquid natural rubber blends. *Journal of Applied Polymer Science*. 85: 1070. (2002). www3.interscience.wiley.com/journal/114803744/issue

37. **A.K. Akinlabi**, F. E. Okieimen, A.I. Aigbodion and I.O. Bakare. Characterization of natural rubber latex of NIG 800 clonal series. *Nigerian Journal of Applied Science.* 19 ;11; (2001).

38. A. I. Aigbodion, I. O. Bakare, F. E. Okieimen and **A. K. Akinlabi**. Kinetics studies of epoxidation and oxirane cleavage of rubber seed oil by per acetic acid. *Indian Journal of Chemical Technology* 8; 1; (2001). www.niscair.res.in/.../ResearchJournals/rejour/ijct/.../ijct_july05.asp

39. **A. K. Akinlabi,** A. F. Farid, A. B. Fasina and F. E. Okieimen. Studies in the substitution of silica with clay as filler in heavy-duty truck tire thread formulation. *Nigerian Journal of Applied Science.* 18; 63; (2000).

40. Okieimen F. E., Eboaye J. E., Wepuaka A and **Akinlabi A. K.** Some aspects of Thermal Degradation of Poly (vinyl chloride) in the presence of Rubber Seed Oil. *Nigerian Journal of Applied Science.* 9; 113; (1991).

Conference / workshop publications.

43**.** **A. K. Akinlabi**, I. A. Lawal, I. C. Eromosele, E. C. Eromosele, E. Dare, F. E. Okieimen, F. Egharevba and D. Malomo. Uses of inner seed shell of African Star Apple in rubber compounding. Presented at the Chemical Society of Nigeria's conference in Effurun, Delta State. (2008).

44. **A. K. Akinlabi**, I. C. Eromosele, E. C. Eromosele, Enoch Dare and A. Ajao. Vulcanizates properties of depolymerised rubber blends filled with admixtures of carbon black and modified shear butter shell. Presented at the 3rd International conference of COLNAS, UNAAB. Abeokuta (2008).

45. **Akinlabi A. K**. and Olayinka O. M. The use of *Pterocarpus Santalinioide* as a filler in natural rubber compounding. Presented at the 3rd International conference of COLNAS, UNAAB. Abeokuta. (2008).

46. **Akinlabi A. K.** Thermal aging properties and molecular transport of solvents through vulcanizates prepared from thioglycollic acid modified epoxidized low molecular weight naturalrubber blends. Presented at the 2nd International conference of COLNAS, UNAAB. Abeokuta. (2006).

47. **Akinlabi A. K.** Studies of the stress recovery behaviour of natural rubber through modeling of the Mooney relaxation. Presented at the CSN Edo Chapter second annual conference held in Auchi Polytechnic, Auchi on July 27th 2006.

48. **Akinlabi A. K.**, Malomo D., Okieimen F. E. and Egharevba F. Influences of different mixing schemes on aging properties and permeability of ketones through vulcanizates from blends of natural rubber and low molecular weight natural rubber. Presented at the CSN Edo Chapter second annual conference held in Auchi Polytechnic, Auchi on July 27th 2006.

49. **Akinlabi A. K.,** Okwu U. N., Aigbodion A. I., Momodu I. and Ohaga S. Ogbebor O. J., Egbuson P., Ayeke P., Azikiwe I. Y., Wilson O., and Ohimai M. Effect of different coagulating systems of natural rubber latex on properties of crumb rubber**.** Presented at the CSN Edo Chapter first annual conference held in AAU, Ekpoma on July 29th 2005.

50. Malomo D., Egharevba F., **Akinlabi A. K**. and Okieimen F. E. Overview of natural rubber mixing schemes Comparison of different mixing schemes of natural rubber. Presented at the CSN Edo Chapter first annual conference held in AAU, Ekpoma on July 29th 2005.

51. Aigbodion A. I., Bakare I. O., Okieimen F. E. and **Akinlabi A. K.** Preliminary investigations in the synthesis and characterization of maleinized rubber seed oil. Presented at the CSN Edo Chapter first annual conference held in AAU, Ekpoma on July 29th 2005.

52. **A. K Akinlabi,** Bonfils F and Sainte-Beuve J. Viabilities in the Physico-chemical parameters of SAR 10 Crumb Rubber. Presented at the 27th CSN annual international conference held at the University of Benin, Benin City in September 2004.

53. **A. K Akinlabi**, and Okieimen F. E. Solvent resistance and thermal aging properties of blends of natural rubber and epoxidized low molecular weight natural rubber. Presented at the 27th CSN annual international conference held at the University of Benin, Benin City in September 2004.

54. **A. K Akinlabi,** Okieimen F. E. and Aigbodion A. K.. Permeability of Aldehydes into blends of natural rubber and chemically modified low molecular weight natural rubber. Presented at the 27th CSN annual international conference held at the University of Benin, Benin City in September 2004.

55. **Akinlabi A. K**, Okieimen F. E. and Aigbodion A. I.- sorption and diffusion of brake fluid into blends of modified low molecular weight natural rubber. Presented at the NIMACON 3rd annual international conference held at EMDI, Akure in November 2003.

56. **Akinlabi A. K**, Okieimen F. E., Aigbodion A. I. and Bakare I. O.- sorption and diffusion of aldehydes into blends of natural rubber and low molecular weight natural rubber. Presented at the Polymer Institute of Nigeria Annual Technical conference held in Portharcourt, in November 2002.

57. F. E. Okieimen, **A.K. Akinlabi**, A.I. Aigbodion and I.O. Bakare. - Processing characteristics and physico-mechanical properties of thioglycollic acid modified epoxidised low molecular weight natural rubber and its blends with natural rubber. Presented at the 25th CSN annual international conference held in Awka in September 2002.

58. F. E. Okieimen, **A.K. Akinlabi**, A.I. Aigbodion and I.O. Bakare. – Studies in the substitution of carbon black with rubber seed husk as filler in low molecular weight natural rubber compounding. Presented at the 24th CSN annual international conference 2001.

59. Egbon E. E., Jideonwo A. and **Akinlabi A. K**.- overview of processing characteristics of epoxidized natural rubber blended with polystyrene and polypropylene. Presented at the Polymer Institute of Nigeria Annual Technical conference 2001.

60. Iyasele J., Okieimen F. E. and **Akinlabi A. K**.- effects of melon seed shell and carbonized melon seed shell as fillers in natural rubber compounding. Presented at the Polymer Institute of Nigeria Annual Technical conference 2001.

61. **Akinlabi A. K.** and Okieimen F. E.- studies in the substitution of carbon black with carbonized rubber seed shell as filler in low molecular weight natural rubber compounding. Presented at the Polymer Institute of Nigeria Annual Technical conference 2001.

62. Iyasele J., Okieimen F. E. and **Akinlabi A. k.** – effects of rice husks and carbonized rice husks as fillers in natural rubber compounding. Presented at the Polymer Institute of Nigeria Annual Technical conference 2001.

OUTSTANDING PUBLICATION.

One of my articles titled- Modelling of Mooney Viscosity Relaxation in Natural Rubber, published in the journal of *Polymer Testing*. 24, 620 – 627 (2005). Co-authored by Ehabe E, Bonfils F., Aymard C, Akinlabi A. K. and Sainte Beuve J. was rated in 2005 among the **Top 25 hottest article under sciencedirect.com.**