

REFERENCES

1. E.Jansen (to Duette Celluloid-Fabrik), Gu Pat., 332, 203(1921).
2. Hallabaugh, C.B. Burt, L.H. and Walsh, A.P. Ind. Eng. Chem 37, 943-7(1945).
3. "Cellulose", Encyclopedia of Polymer Science and Technology, Interscience Publishers, a division of John Wiley & Sons. Inc., 1965.
4. J.D. Guthrie, C.L. Hoffpauir, M.F. Standbury and W.A. Reeves, U.S. Dep. Agr. Bur. Agr. Ind. Chem. Publ. AIC- (revised 1949).
5. "Cellulose and Cellulose Derivatives", part 2, edited by E.OTT, H.M. Spurlin and M.W. Graffin, Interscience Publishers, Inc. New York, 1963.
6. Gessner G. Hawley, "The Condensed Chemical Dictionary", 8th edition, Van Norstrand Reinhold Company, New York, 1971.
7. "Celluloid-cellulose", Chamber Encyclopedia, Georgy Newes Led., 1959.
8. "Cellulose and Cellulose Derivatives", part 1, edited by E.OTT, H.M. Spurlin and M.W. Graffin, Interscience Publishers, Inc., New York, 1963.
9. E.J. Lorand, Ind. Eng. Chem., 31, 891 (1939)
10. M.W. Bray and T. Andrews, *ibid.*, 15, 377 (1923)
11. Annual Book of ASTM Standards, Part 20, D 588-42, USA, 1975.
12. W.S. Denham and Woodhouse, J.Chem. Soc., 111, 244 (1971)
13. Casey, "Pulp and Paper", 2nd ed. Vol.1, Interscience Publishers, Inc., New York, 1960.

14. "Cellose", Encyclopedia Britannica, Encyclopedia Britannica Inc., U.S.A., 1959.
15. N.I.Nikitin, "The Chemistry of Cellulose and Wood", translated from Russian by J. Schmorak, Jerusalem, Israel, Program for Scientific Translation, 1966.
16. T.E. Timell, Svensk Pappers Tidn., 52, 61 (1940).
17. S. Rydholm, *ibid.*, 53, 561 (1950).
18. M. Nakamura and K.Watanabe, Internal report (unpublished), institute of Industrial Science, The University of Tokyo, Tokyo, Japan.
19. Yehia Fahmy and Olfat Mansour, Indian Pulp and Paper, 20, 575 (1966).
20. "Sodium Carboxymethylcellulose", Encyclopedia of Polymer Science and Technology, Interscience Publishers, a division of John Wiley & Sons. Inc., 1965.
21. R.R. McLaughlin and J.H.E. Herbst, Can. J. Research., 28 B, 731 (1950).
22. Eiji Hayakawa and Yazaeman Marita (to Bureau of Industrial Technico), C.A.52, 1958, 12901 g.
23. K. Watanabe and M. Nakamura, Kogyo Kagaku Zasshi, 68, 1926-1928 (1995). Institute of Industrial Science, University of Tokyo, Japan, 1965.
24. Yehia Fahmy and Olfat Mansour, Indian Pulp and Paper, 21,143(1966).
25. Annual Book of ASTM Standards, Part 21, D 1439-72, Easton, Md., U.S.A., 1975.
26. R.T. Morrison and R.N.Boyd, "Organic Chemistry", 3rd edition, Allyn and Bacon, Inc., Boston, 1974.



VITA

NAME: Miss Ranee Hanpol

DEGREE: B.Sc.(Chemistry), Chulalongkorn University,
Thailand, 1971.

POSITION: Lecturer, Department of Chemistry, Faculty
of Science, Kasetsart University, Bangkok,
Thailand.

RESEARCH GRANT: Department of Graduate School of Chulalongkorn
University.
The National Research Council of Thailand.
Kasetsart University.