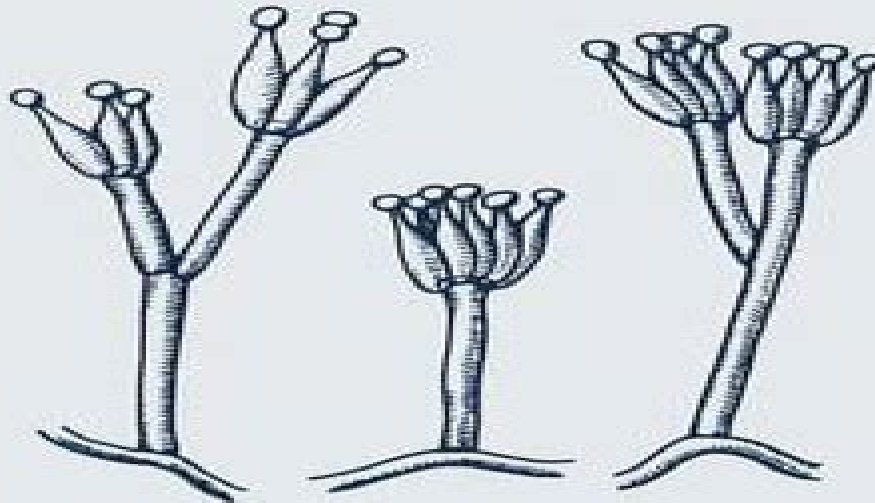


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# **BIODETERIORATION RESEARCH 3**

**Mycotoxins, Biotoxins, Wood Decay,  
Air Quality, Cultural Properties,  
General Biodeterioration, and Degradation**



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**Edited by  
Gerald C. Llewellyn  
and  
Charles E. O'Rear**

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# Biodeterioration Research

**Rachel Sandford**



## **Biodeterioration Research:**

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*Biodeterioration Research 1* Gerald C. Llewellyn, Charles E. O'Rear, 2012-12-06 Man made textile fibers are frequently encountered as trace evidence in criminal investigations This study examined the effects of burial in soil on the biodeterioration of synthetic textile fibers such as cellulose acetate nylon polyesters and acrylics Cellulose acetate fibers began to show signs of decomposition within two months after burial in common garden topsoil and were completely degraded within four to nine months It was found that severely decomposed cellulose acetate fibers could be identified by pyrolysis gas liquid chromatography even when other methods such as polarized light microscopy and dispersion staining failed The solubility behavior of the cellulose acetate fibers also was altered The other types of fibers showed no detectable alteration at the end of the twelve month study REFERENCES American Association of Textile Chemists and Colorists 1971 AATCC Technical Manual AATCC Triangle Park NC Cook R and Paterson M D 1978 New techniques for the identification of microscopic samples of textile fibers by infrared spectroscopy Forensic Sci Int 12 237 243 DeForest P R Geanssen R E and Lee H C 1983 Forensic Science An Introduction to Criminalistics McGraw Hill Book Company NY Federal Bureau of Investigation 1978 Solubility schemes by generic class Federal Bureau of Investigation Washington DC Fong W 1982 Rapid microscopic identification of synthetic fibers in a single liquid mount Forensic Sci 27 257 263

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