### Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: <a href="mailto:gailmac@vt.edu">gailmac@vt.edu</a>)

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# Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Richard Johnson

Description of item under review for fair use: Scheme 9. A simplified mechanism for the catalytic cycle in TEMPO-mediated oxidation of alcohol substrates under weakly alkaline conditions. The TEMPO radical is continuously regenerated in situ by reaction of the nitrosonium ion and the hydroxylamine. Bragd, P. L.; van Bekkum, H.; Besemer, A. C. Topics in Catalysis 2004, 27, 49.

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Name: Richard Johnson

Description of item under review for fair use: Figure 4 Possible scheme of formation of hydroxyl radicals during TEMPO-mediated oxidation of cellulose. Shibata, I.; Isogai, A. Cellulose 2003, 10, 151. pg 155

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Name: Richard Johnson

Description of item under review for fair use: Fig. 3. Wet tensile strength of sheets, which were prepared from the original cellulose, the TEMPO-oxidized cellulose prepared under the optimum conditions in Fig. 2, and that further treated by either reduction with NaBH4 or oxidation with NaClO2.Saito, T.; Isogai, A. Colloids and Surfaces a-Physicochemical and Engineering Aspects 2006, 289, 219.

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