

Draft 09/01/2009

(Questions? Concerns? Contact Gail McMillan, Director of the Digital Library and Archives at Virginia Tech's University Libraries: [gailmac@vt.edu](mailto:gailmac@vt.edu))

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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: Fernando Navarro

Description of item under review for fair use: Scheme 1 in Girisuta, B., L. Janssen, et al. (2007). "Kinetic study on the acid-catalyzed hydrolysis of cellulose to levulinic acid." Industrial & Engineering Chemistry Research 46(6): p. 1699

Report generated on: 05-07-2010 at : 09:52:54

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

#### Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

**Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***



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Name: Fernando Navarro

Description of item under review for fair use: Scheme 13 in Kobayashi, S.; Uyama, H.; Kimura, S., Enzymatic polymerization. Chemical Reviews 2001, 101, (12), p. 3803

Report generated on: 05-07-2010 at : 09:38:11

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 10 in Lima, M. M. D.; Borsali, R., Rodlike cellulose microcrystals: structure, properties, and applications. Macromol. Rapid Commun. 2004, 25, p. 782.

Report generated on: 05-07-2010 at : 10:27:52

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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Name: Fernando Navarro

Description of item under review for fair use: Figure 2 in Araki, J., M. Wada, et al. (1999). "Influence of surface charge on viscosity behavior of cellulose microcrystal suspension." Journal of Wood Science 45(3), p. 260.

Report generated on: 05-07-2010 at : 10:33:01

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 1 in Le, H. P. (1998). "Progress and trends in ink-jet printing technology." Journal of Imaging Science and Technology 42(1): 49-62.

Report generated on: 05-07-2010 at : 10:40:02

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 2 in Le, H. P. (1998). "Progress and trends in ink-jet printing technology." Journal of Imaging Science and Technology 42(1): 49-62.

Report generated on: 05-07-2010 at : 10:44:51

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 3 in Le, H. P. (1998). "Progress and trends in ink-jet printing technology." Journal of Imaging Science and Technology 42(1): 49-62.

Report generated on: 05-07-2010 at : 10:46:25

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure "Side Shooter thermal..." in <http://www.techexchange.com/thelibrary/chnlgy.pdf>, p. 7.

Report generated on: 05-07-2010 at : 10:59:13

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure "Rear Shooter thermal..." in <http://www.techexchange.com/thelibrary/technlg.pdf>, p. 7.

Report generated on: 05-07-2010 at : 11:00:45

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 10 in Lindemann, T., H. Ashauer, et al. (2007). "One inch thermal bubble jet printhead with laser structured integrated polyimide nozzle plate." Journal of Microelectromechanical Systems 16(2), p.424.

Report generated on: 05-07-2010 at : 10:51:47

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 1 in Brunahl, J.; Grishin, A. M., Piezoelectric shear mode drop-on-demand inkjet actuator. Sensors and Actuators a-Physical 2002, 101, (3), p. 372.

Report generated on: 05-07-2010 at : 11:05:01

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 15 in Le, H. P. (1998). "Progress and trends in ink-jet printing technology." Journal of Imaging Science and Technology 42(1): 49-62.

Report generated on: 05-07-2010 at : 11:08:12

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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Name: Fernando Navarro

Description of item under review for fair use: Figure 1 in Zavala, G. (2008). "Atomic force microscopy, a tool for characterization, synthesis and chemical processes." Colloid and Polymer Science 286(1), p. 86. AND Figure 2 in Sebastian, A., A. Gannepalli, et al. (2007). "A review of the systems approach to the analysis of dynamic-mode atomic force microscopy." IEEE Transactions on Control Systems Technology 15(5), p. 952.

Report generated on: 05-07-2010 at : 11:15:41

**Based on the information you provided:****Factor 1**Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use***Factor 2**Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use***Factor 3**Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use***Factor 4**Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use***Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***

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Name: Fernando Navarro

Description of item under review for fair use: Figure 7 in Abramovitch, D. Y.; Andersson, S. B.; Pao, L. Y.; Georg, S. In A Tutorial on the mechanisms, dynamics, and control of Atomic Force Microscopes, Proceedings of the 2007 American Control Conference, New York, 2007; New York, 2007; p. 3491.

Report generated on: 05-07-2010 at : 11:32:17

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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Name: Fernando Navarro

Description of item under review for fair use: Figure 3-1 in Hawkes, P. W.; Spence, J. C. H., Science of microscopy. 2<sup>o</sup> ed.; Springer: New York, 2007; Vol. 1, p 140.

Report generated on: 05-07-2010 at : 12:25:00

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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Name: Fernando Navarro

Description of item under review for fair use: Figure 3-2 in Hawkes, P. W.; Spence, J. C. H., Science of microscopy. 2<sup>o</sup> ed.; Springer: New York, 2007; Vol. 1, p 141.

Report generated on: 05-07-2010 at : 13:08:32

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 1 in Schwarz, B., C. Elsenmenger-Sittner, et al. (2007). "Construction of a high-temperature sessile drop device." Vacuum 82(2), p. 187.

Report generated on: 05-07-2010 at : 11:51:12

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Description of item under review for fair use: Figure 1 in Morita, A. T., D. J. Carastan, et al. (2002). "Influence of drop volume on surface tension evaluated using the pendant drop method." Colloid and Polymer Science 280(9), p. 858.

Report generated on: 05-07-2010 at : 11:46:41

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#### Factor 1

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Name: Fernando Navarro

Description of item under review for fair use: Fig. 4 in Xiang, Q.; Lee, Y. Y.; Pettersson, P. O.; Torget, R., Heterogeneous aspects of acid hydrolysis of alpha-cellulose. Applied Biochemistry and Biotechnology 2003, 105, p. 511.

Report generated on: 05-07-2010 at : 09:58:10

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Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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Name: Fernando Navarro

Description of item under review for fair use: Figure 1 in Bondeson, D., I. Kvien, et al. (2006). "Strategies for preparation of cellulose whiskers from microcrystalline cellulose as reinforcement in nanocomposites." Cellulose Nanocomposites: Processing, Characterization, and Properties, p. 13.

Report generated on: 05-14-2010 at : 16:32:50

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

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Report generated on: 05-07-2010 at : 10:18:35

**Based on the information you provided:****Factor 1**Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use***Factor 2**Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use***Factor 3**Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use***Factor 4**Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use***Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***

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Description of item under review for fair use: Figure 1 in Gray, D. G. (1994). "Chiral nematic ordering of polysaccharides." Carbohydrate Polymers 25, p. 277.

Report generated on: 05-07-2010 at : 10:22:45

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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: Fernando Navarro

Description of item under review for fair use: Table 2 in Gardner, D. J., G. S. Oporto, et al. (2008). "Adhesion and surface issues in cellulose and nanocellulose." Journal of Adhesion Science and Technology 22(5-6), p.560.

Report generated on: 05-07-2010 at : 10:12:45

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

#### Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

**Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***





Draft 09/01/2009

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Report generated on: 05-07-2010 at : 11:25:08

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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#### Factor 4

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Draft 09/01/2009

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Name: Fernando Navarro

Description of item under review for fair use: Table 1 in [http://www.veeco.com/pdfs/appnotes/AN48r2\\_SPM\\_AFM\\_278.pdf](http://www.veeco.com/pdfs/appnotes/AN48r2_SPM_AFM_278.pdf), p. 1.

Report generated on: 05-07-2010 at : 11:28:24

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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#### Factor 4

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Draft 08/31/2009

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Scheme 13 in Kobayashi, S.; Uyama, H.;

Kimura, S., Enzymatic polymerization.

Chemical Reviews 2001, 101, (12), p. 3803

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- Yes  
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 No

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 No

5. Did you redo or alter the copyrighted work to serve a new purpose when you used it in your ETD?

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- Yes  
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**Factor 4: Consider the effect your use of the copyrighted material may have on the (potential) sale of the copyrighted work.**

1. Did you lawfully acquire a copy of copyrighted material you used in your ETD?

- Yes  
 No

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- Yes  
 No  
 Don't know

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- Yes  
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4. Could access to the copyrighted material in your ETD replace the use of original copyrighted work?

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Analyze Fair Use

Draft 08/31/2009

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Figure 10 in Lima, M. M. D.; Borsali, R.,  
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Name: Fernando Navarro

Description of item under review for fair use: Figure 1 in Le, H. P. (1998). "Progress and trends in ink-jet printing technology." Journal of Imaging Science and Technology 42(1): 49-62.

Report generated on: 05-07-2010 at : 10:40:02

### Based on the information you provided:

#### Factor 1

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

#### Factor 2

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

#### Factor 3

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#### Factor 4

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *in favor of fair use*

**Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***



Draft 08/31/2009

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Figure "Side Shooter thermal..." in

<http://www.techexchange.com/thelibrary>

/tchnlgy.pdf, p. 7.

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Figure 1 in Brumahl, J.; Grishin, A. M.,

Piezoelectric shear mode drop-on-demand

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Figure 7 in Abramovitch, D. Y.; Andersson, S. B.; Pao, L. Y.; Georg, S. In A Tutorial on the mechanisms, dynamics, and control of

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Fig. 4 in Xiang, Q.; Lee, Y. Y.; Pettersson, P. O.; Torget, R., Heterogeneous aspects of acid hydrolysis of alpha-cellulose. *Applied***Factor 1: Consider the purpose and character of the use you made of someone else's copyrighted material in your ETD.**

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