Martin Eichers DDGS Based 3D Printing Biocomposite Filament Undergraduate Research Award Bibliography

Remarks

The research for this project was conducted by undergraduate student Martin Eichers and professor Dr. Dilpreet Bajwa for the Mechanical Engineering Department at NDSU. PhD student Jamileh Shojaeiarani assisted in the research in Fall 2018 and Spring 2019. Graduate student Chad Rehovsky assisted in the research in Summer 2019. At the end of Summer 2019, Dr. Bajwa moved to Montana State University (MSU). The project transitioned to joint research between MSU and NDSU for Fall 2019 and Spring 2020 because of this move. Dr. Alan Kallmeyer, Mechanical Engineering department chair, became the NDSU supervisor for the project during the Fall 2019 and Spring 2020 semesters.

Bibliography

- [1] B. Tisserat, Z. Liu, V. Finkenstadt, B. Lewandowski, S. Ott, L. Reifschneider, 3D printing biocomposites, Society of Plastics Engineers (2015), Plastics Research Online, 10.2417/spepro.005690
- [2] M. Maiza, M. Benaniba, G. Quintard, V. Massardier-Nageotte, Biobased additive plasticizing polylactic acid (PLA), Polímeros 25(6) (2015) 581-590, DOI:10.1590/0104-1428.1986
- [3] V. Tanrattanakul, P. Bunkaew, Effect of different plasticizers on the properties of bio-based thermoplastic elastomer containing poly(lactic acid) and natural rubber, eXPRESS Polymer Letters Vol.8, No.6 (2014) 387–396, DOI: 10.3144/expresspolymlett.2014.43
- [4] M. Vieira, M. Silva, L. Santos, M. Beppu, Natural-based plasticizers and biopolymer films: A review, European Polymer Journal 47 (2011) 254-263
- [5] F. Seixas, F. Turbiani, P. Salomao, R. Souza, M. Gimenes, Biofilms composed of alginate and pectin: Effect of concentration of crosslinker and plasticizer agents, The Italian Association of Chemical Engineering Vol. 32 (2013), DOI: 10.3303/CET1332283
- [6] R. Darie-Nita, C. Vasile, A. Irimia, R. Lipsa, M. Rapa, Evaluation of some eco-friendly plasticizers for PLA films processing, Journal of Applied Polymer Science (2015), DOI: 10.1002/app.43223
- [7] M. Garcia-Campo, L. Quiles Carrillo, J. Masia, M. Reig-Perez, N. Montanes, R. Balart, Environmentally friendly compatibilizers from soybean oil for ternary blends of poly(lactic acid)-PLA, Molecular Diversity Preservation International (2017)