ANNUAL FACULTY ACTIVITY REPORT  
January 1, 2016 - April 10, 2017

**Faculty Name:** Dr. Dante Battocchi  
**Rank:** Assistant Professor  
**College:** Science and Mathematics  
**Department:** Coatings & Polymeric Materials  
**Tenure Status:** Tenure-Track  
**On-leave:** None

### Effort Allocation

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<tr>
<th>Responsibility</th>
<th>Percentage of Effort</th>
</tr>
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<tr>
<td>Teaching</td>
<td>35%</td>
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<td>50%</td>
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<tr>
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<tr>
<td>Extension</td>
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### I. TEACHING, ADVISING, CURRICULUM DEVELOPMENT

#### A. Scheduled Teaching

**Spring 2016**

<table>
<thead>
<tr>
<th>Course &amp; Section</th>
<th>Credit Hours Taught</th>
<th>% Resp</th>
<th>Grade Distribution</th>
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<th>Q4</th>
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<th>New Format for Existing Course?</th>
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#### B. Formal Advising

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<th>Graduate</th>
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<td>2015-2016</td>
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II. INTELLECTUAL CONTRIBUTIONS

A. Refereed Research Publications

1. Journal articles


C. Contracts, Grants, and Sponsored Research

1. On-Going Research Support

   Battocchi, Dante, "Coating Research for Military Infrastructure" (Funded), Sponsored by DOD-Tardec, Other, $317,765.94. (January 20, 2017 - May 30, 2019).

   Battocchi, Dante, "Multistrate Paint Adhesion Systems" (Funded), Sponsored by DoD Tardec, Other, $266,545.51. (January 20, 2017 - May 30, 2019).

III. PROFESSIONAL SERVICE

A. University Service

1. Department Service

   Committee Member, Curriculum Committee, No. (January 1, 2017 - Present).
   Review old curriculum for the 700 level courses and participate to the reorganization

   Committee Member, Grad Program Leaders, No. (October 1, 2016 - Present).
   Participate in activities with the Graduate School and manage the selection process of new applicant in the department

2. Thesis Committee Service

   Dissertation Committee Member (Completed)

   Advised: Adilina Paramarta
   Title: New resins for composites

   Dissertation Committee Chair (Completed)

   Advised: Junren Lin
   Title: Mg rich primer studies with powder coating topcoats

IV. OTHER ACTIVITIES NOT LISTED ABOVE

A. Faculty Development

Stuart Croll

Tenured, Professor.

Responsibilities:

<table>
<thead>
<tr>
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<th>Research</th>
<th>Service</th>
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<tr>
<td>40%</td>
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<td>20%</td>
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</table>

Scheduled teaching:

- CPM 4/674  Coatings I
- CPM 4/765  Coatings Materials Science
- CPM 4/485  Coatings II laboratory
- CPM 4/651  Laboratory safety
- CPM 771  Modern Methods of Polymer characterisation
- CPM 775  Color and Appearance
- CPM 690, 790, Graduate Seminars

Intellectual etc:

Journal Articles:


Book Chapters:


Conference Presentations:


Publication works in progress


Grants etc:

2. Pipeline Coatings: “Pipeline Coating Weathering Study”, Corrosion protection vs. appearance Northwest Pipe Consortium – BASF, Carboline (RPM), Futura (ITW), LifeLast, Valspar, July 2015 – July 2018

Service

University Service
Laboratory Safety Committee
Program Review Committee

Thesis committee service
One student as supervisor, several (not tracked) memberships of other students’ advisory committees.

College Service
College Alignment Committee

Department Service
Not tracked.

External Service
Editorial Review Board of “Progress in Organic Coatings” and “J. Coatings Technology and Research”


Panel member for Getty Conservation Institute: “Documenting painted surfaces for exterior sculpture,” February 2017

Organizing Committee: Coatings Science International Conference, ETCC.
ANNUAL FACULTY ACTIVITY REPORT  
January 1, 2016 - March 31, 2017

Faculty Name: Dr. Mohiuddin Quadir  
Rank: Assistant Professor  
College: Science and Mathematics  
Department: Coatings & Polymeric Materials  
Tenure Status: Tenure-Track  
On-leave: None

Effort Allocation

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I. TEACHING, ADVISING, CURRICULUM DEVELOPMENT

A. Formal Advising

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II. INTELLECTUAL CONTRIBUTIONS

A. Research Awards and Honors

Center for Biomedical Research Experience Junior Investigator, CoBRE, NDSU/NIH, Scholarship/Research. (March 1, 2017).
For inclusion as a P.I. in the CoBRE, NIH supported center at NDSU for pancreatic cancer.

Corn Council Mini Grant, North Dakota Corn Council, Scholarship/Research. (August 1, 2016).
Research grant entitled for investigating the potential of 'Synthesizing Medical Material from Corn bran: Corn Meets Nanomedicine

Research fund to investigate the translation of agro-based products to nano-medical research area.

B. Other Scholarly Activities

1. Other Faculty Development Activities Contributions

Symposium, "AAPS - NDSU Pharmaceutical Research Symposium 2016," Department of Pharmaceutical Sciences and AAPS. (September 8, 2016).
Research activity

2. Professional Certifications

Responsible Conduct of Research, Collaborative Institutional Training Initiative (CITI Program). (2017 - Present).
C. Contracts, Grants, and Sponsored Research

1. Grants Submitted

Quadir, Mohi (Principal: P.I.), "AAPS Foundation New Investigator Grant" (Not Awarded), Sponsored by American Association of Pharmaceutical Scientists, Private, $39,642.00. (2016 - Present).

Khan, Eakalak (Principal:), Sivaguru, Jayaraman (Co-Principal:), Simsek, Senay (Co-Principal:), Stone, James (Co-Principal:), Ndiva Mongoh, Mafany (Co-Principal:), Sibi, Mukund (Senior Personnel:), Ulven, Chad (Senior Personnel:), Yadav, Om (Senior Personnel:), McEvoy, John (Senior Personnel:), Quadir, Mohi (Senior Personnel:), "INFEWS/T3: Innovative Solutions to Attenuate Fracturing Effects through Technology (InSAFETY)" (Not Awarded), Sponsored by National Science Foundation, Federal, $2,999,999.00. (November 1, 2016 - October 31, 2019).

Rahman, Shafiqur, Quadir, Mohi (Co-Principal:), Swanson, Kendall (Co-Principal:), Lee, Chiwon (Co-Principal:), "Fate and transport of zinc and silver nanoparticles (NPs) in livestock manure and their impacts on the environment (air and soil) and crop(s)" (Currently Under Review), Sponsored by USDA/NIFA, $499,988.00. (October 1, 2016 - September 30, 2019).


Quadir, Mohi (Principal: PI), Quadir, Mohi (Principal: PI), Borowicz, Pawel (Principal: PI), Mallik, Sanku (Principal: PI), Jiang, Long (Principal: PI), Habib, Khalid (Principal: PI), "Collaborative Research Seed Grant Program" (Currently Under Review), Sponsored by Sanford Health, Private, $80,570.00. (2017 - 2018).

Quadir, Mohi, "Engebretson Family Research Fund" (Currently Under Review), Sponsored by NDSU Foundation and Alumni Association Trustees and Alumni Directors, $5,000.00. (2017 - 2018).

Quadir, Mohi (Principal: P.I.), Webster, Dean (Co-Principal: Co-P.I.), "Soy-derived chemicals as Advanced Bio- and Pharmaceutical Materials" (Not Awarded), Sponsored by ND Soybean Council, $50,000.00. (2017 - 2018).

Quadir, Mohi, "Centennial Endowment Fund" (Not Awarded), Sponsored by NDSU Foundation and Alumni Association Board of Trustees, $4,500.00. (2016 - 2017).

Quadir, Mohi, "The NDSU Development Foundation Carl A and Jean Y. White Agricultural Research Fund" (Not Awarded), Sponsored by NDSU Foundation and Alumni Association Board of Trustees, $3,950.00. (2016 - 2017).

2. On-Going Research Support

Orr, Megan (Supporting: Faculty member of the Bio-statistical Core Facility), Mallik, Sanku (Senior Personnel: Director), Srivastava, D.K. (Senior Personnel: Co-Director), Friesner, Daniel L (Senior Personnel: Director of Bio-statistical Core Facility), Leclerc, Estelle (Co-Principal: Junior Investigator), Liu, Guodong (Co-Principal: Junior Investigator), Reindl, Katie (Co-Principal: Junior Investigator), Quadir, Mohi (Co-Principal: Junior Investigator), "Centers of Biomedical Research Excellence - Center for Diagnostic and Therapeutic Strategies in Pancreatic Cancer" (Funded), Sponsored by National Institutes of Health - National Institute of General Medicine Sciences, $2,000,000.00. (2016 - 2021).

Quadir, Mohi, "2016 Producer Education Mini-Grant Application" (Funded), Sponsored by North Dakota Corn Council, $4,999.00. (2016 - 2017).


III. PROFESSIONAL SERVICE

A. University Service

1. Department Service

Committee Chair, Curriculum committee, No. (November 16, 2016 - Present).
To modify the existing graduate curriculum of the department to align the content matter with the broader mission statement of the department.

2. Thesis Committee Service

Dissertation Committee Member (In-Process)

Advised: Nilay Sarker
Title: Application of nanoparticle in livestock manure and pollutant gasses reduction mechanism characterization

Dissertation Committee Member (In-Process)

Advised: Oksana Zholobko

Master's Thesis Committee Member (In-Process)

Advised: Naqib Hossain

Postdoc Supervision (In-Process)

Advised: Priyanka Ray
Title: Spatially-controlled, Combination Drug Delivery Platform using pH-Responsive Polymersomes
Undergraduate Research Advisor (In-Process)

Advised: Brooke Benz
Title: Nanoparticles for selective antibacterial effect

Master's Thesis Committee Member (In-Process)

Advised: Abu Md Niamul Taufique
Title: A novel macroscopic technique to measure the nanomechanics of durable multifunctional nanosheets

K-12 Mentor (Completed)

Advised: Janene Paterson
Title: Using Bio-based Materials to Design Anti-Cancer Drug Delivery Systems

Undergraduate Research Advisor (Completed)

Advised: Timothy Johnson

IV. HONORS/AWARDS/RECOGNITIONS

V. OTHER ACTIVITIES NOT LISTED ABOVE

A. Faculty Development


B. Publications


ANNUAL FACULTY ACTIVITY REPORT
January 1, 2017 - April 1, 2017

Faculty Name: Prof. Bakhtiyor Rasulev
Rank: Assistant Professor
College: CSM
Department: Coatings and Polymeric Materials
Tenure Status: Tenure Track
On-leave: None

Effort Allocation

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I. INTELLECTUAL CONTRIBUTIONS

A. Refereed Research Publications

1. Journal articles


B. Other Scholarly Activities

1. Conference Presentations


2. Publication Works in Progress

Nanoscale.


C. Contracts, Grants, and Sponsored Research

DMREF: Integration of Computation and Experiments to Design Polymeric Nanoassemblies for Drug Delivery
Agency: NSF
PI: B. Rasulev;
Co-Pls: A. Voronov, S. Kilina, S. Stafslien
Currently Under Review: $1,039,830.00
Expected Dates for Funding: September 1, 2017 - August 30, 2020

D3SC: RAISE: A data-driven predictive design of organometallic complexes with nonlinear optical properties
Agency: NSF
PI: B. Rasulev;
Co-Pls: S. Kilina, W. Sun, S. Ludwig
Not Awarded: $795,000.00
Expected Dates for Funding: January 1, 2018 - December 30, 2021

NRT-INFEWS: Graduate training in material science bridging design of energy materials with environmental studies of their effects on plants and water
Agency: NSF
PI: S. Kilina;
Co-Pls: E. Hobbie, A. Voronov, A. Bezbaruah, R. Brueggman
Senior personnel – B. Rasulev, W. Sun, S. Sinha, K. Katti
Currently Under Review: $3,000,000.00
Expected Dates for Funding: September 1, 2017 - August 31, 2022

Materials Design through an Experimental and Computational Study of Corrosion Processes at the Interface between Polymer Coatings and Metal Surfaces
Agency: NASA ND EPSCoR
PI: B. Rasulev
Co-PI: S. Croll
Not Awarded: $584,060.00
Expected Dates for Funding: September 1, 2017 - August 30, 2020
II. PROFESSIONAL SERVICE

A. University Service

1. Department Service

Installation and administration of server for Origin software, Department of Coatings and Polymeric Materials, No. (February 1, 2017 - December 31, 2017). Installation and administration of computer server for Origin software.

2. University Service

Committee Member, Search for Executive Head of Computational Center (CCAST), No. (February 17, 2017 - June 30, 2017). Search for the Executive Head of CCAST.

B. Professional Activities

1. Professional Service

Editor-in-Chief, Journal of Nanotoxicology and Nanomedicine, No. (2016 - Present). Managing the journal activities, acquiring manuscripts, reviewing, assigning reviewers, accepting and sending to publisher.


III. OTHER ACTIVITIES NOT LISTED ABOVE

A. Faculty Development


B. Publications


ANNUAL FACULTY ACTIVITY REPORT
January 1, 2016 - December 31, 2017

Faculty Name: Dr. Andriy Voronov
Rank: Associate Professor
College: Science and Mathematics
Department: Coatings & Polymeric Materials
Tenure Status: Tenured
On-leave: None

Effort Allocation

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Fall 2016

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Spring 2016

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Spring 2017

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II. INTELLECTUAL CONTRIBUTIONS

A. Refereed Research Publications

1. Journal articles


B. Other Scholarly Activities

1. Conference Presentations


2. Media Contributions


C. Contracts, Grants, and Sponsored Research

1. Grants Submitted

Kilina, Svetlana (Principal:), Hobbie, Erik (Co-Principal:), Voronov, Andriy (Co-Principal:), Bezbaruah, Achintya (Co-Principal:), Brueggeman, Robert (Co-Principal:), Rasulev, Bakhtiyor (Senior Personnel:), Sun, Wenfang (Senior Personnel:), Sinha, Sangita (Senior Personnel:), Katti, Kalpana (Senior Personnel:), "NRT-INFEWS: Graduate training in material science bridging design of energy materials with environmental studies of their effects on plants and water" (Currently Under Review), Sponsored by NSF, Federal, $3,000,000.00. (September 1, 2017 - August 31, 2022).

Rasulev, Bakhtiyor (Principal: PI: head of the project, cheminformatics research), Kilina, Svetlana (Co-Principal: co-PI: computational chemistry research), Voronov, Andriy (Co-Principal: co-PI: experimental research, synthesis), Stafslien, Shane (Co-Principal: co-PI: experimental research, biological tests), "Integration of Computation and Experiments to Design Polymeric Nanoassemblies for Drug Delivery" (Currently Under Review), Sponsored by NSF, Federal, $1,039,830.00. (September 1, 2017 - August 30, 2020).

Voronov, Andriy (Principal:), Kilina, Svetlana (Co-Principal:), Avudaiappan, Maran (Co-Principal:), "Collaborative Research: Mechanisms of Interfacial Macromolecular Inversion for Targeted Micellar Drug Delivery" (Not Awarded), Sponsored by NSF, Federal, $248,846.00. (July 1, 2017 - June 30, 2020).

Voronov, Andriy (Principal:), "Vegetable Oil-Based Latexes for Coatings and Paints" (Currently Under Review), Sponsored by ND Agricultural Product Utilization Commission, State, $68,561.00. (June 1, 2017 - May 31, 2018).

Voronov, Andriy (Principal:), "1st International Symposium on Materials from Renewables" (Not Awarded), Sponsored by NSF, Federal, $10,000.00. (July 1, 2016 - December 31, 2016).

2. On-Going Research Support

Voronov, Andriy, "Innovative and Strategic Program Initiatives for Research and Education-North Dakota INSPIRE North Dakota" (Funded), Sponsored by NSF ND EPSCoR, Federal, $111,663.00. (August 1, 2016 - June 30, 2019).

Pryor, Scott (Co-Principal:), Voronov, Andriy (Principal:), "Collaborative Research: Engineering of Recoverable Cellulosomes for Bioconversion" (Funded), Sponsored by NSF, Federal, $191,970.00. (July 1, 2016 - June 30, 2019).

Voronov, Andriy (Principal:), "New Renewable Polymers from Plant/Vegetable Oils" (Funded), Sponsored by ND Department of Commerce, State, $99,989.00. (January 1, 2016 - March 31, 2018).

Voronov, Andriy (Principal:), Ramamoorthy, Sheela (Co-Principal:), Stafslien, Shane (Co-Principal:), "Polymeric Vaccine Adjuvants Against Swine Influenza" (Funded), Sponsored by ND...

Voronov, Andriy (Principal:), Chisholm, Bret (Co-Principal:), "Process and Application Research and Development for Soy-Based Materials for Industrial Applications" (Funded), Sponsored by ND Department of Commerce, State, $278,045.00. (January 1, 2015 - April 1, 2017).

Voronov, Andriy (Principal:), "1st International Symposium on Materials from Renewables" (Funded), Sponsored by ND Soybean Council, State, $4,000.00. (July 1, 2016 - December 31, 2016).

Voronov, Andriy (Principal:), "Process and Application Research and Development for Soy-Based Materials for Industrial Applications" (Funded), Sponsored by ND Department of Commerce, State, $278,045.00. (January 1, 2015 - April 1, 2017).

Voronov, Andriy (Principal:), "New Polymeric Materials from Soy-Based Monomers and Vinyl Acetate Extension" (Funded), Sponsored by United Soybean Board, Other, $13,831.00. (July 1, 2016 - December 31, 2016).

Voronov, Andriy (Principal:), "New Polymeric Materials from Soy-Based Monomers and Vinyl Acetate" (Funded), Sponsored by United Soybean Board, Other, $58,031.00. (July 1, 2015 - December 31, 2016).

Voronov, Andriy (Principal:), "Novel Soy-Based Nonionic Polymeric Surfactants (SBPS) for Personal Care Applications. 4th Year" (Funded), Sponsored by United Soybean Board, Other, $78,363.00. (September 1, 2015 - December 31, 2016).

Voronov, Andriy (Principal:), "New Polymeric Materials from Soy-Based Monomers and Vinyl Acetate" (Funded), Sponsored by United Soybean Board, Other, $100,000.00. (January 1, 2015 - December 31, 2016).

III. PROFESSIONAL SERVICE

A. University Service

1. Department Service

Program Director, Summer Undergraduate Research Program at CPM, No. (January 1, 2011 - Present).
Managing the program, summer students admission, student supervision

2. College Service

Committee Member, Curriculum Committee, No. (January 1, 2012 - Present).
Committee Member responsibilities

Committee Member, Service and Outreach Committee, Yes. (January 1, 2012 - Present).
Committee Member responsibilities

3. Thesis Committee Service

Dissertation Committee Chair

Advised: Kyle Kingsley
Title:

Dissertation Committee Chair

Advised: Zoriana Demchuk
Title:

Dissertation Committee Chair

Advised: Oksana Zholobko
Title:
B. Professional Activities

1. Professional Service

   Editor-in-Chief, IJTAN (International Journal on Theoretical and Applied Nanotechnology), No. (2016 - Present).

   Executive Board Member, International Academy of Science, Engineering and Technology (International ASET Inc.), No. (2015 - Present).

   Guest Editor, Polymer Thin Films Special Issue of Coatings (MDPI), No. (2015 - Present).

   Editorial Review Board Member, Coatings (MDPI), No. (2014 - Present).


   Director, Summer Undergraduate Research Experience, (SURE) program at Coatings and Polymeric Materials Department, No. (2011 - Present).

   Reviewer, Journal Article, Professional Journals (more than 30), No. (2008 - Present).

   Reviewer, Grant Proposal, Executive Agency for Higher Ed, Research, Development and Innovation Funding of Romania, Bucharest, Yes. (November 2016 - March 2017).


   Editor, Associate Editor, IJTAN (International Journal on Theoretical and Applied Nanotechnology) 2013-2016. (2013 - 2016).


   Program Organizer, 1st International Symposium on Materials from Renewables, Fargo, ND, No. (July 18, 2016 - July 19, 2016).

C. Community Service

1. Civic or community service

   Mentor, NDSU Governor’s School, Fargo, ND, No. (2008 - Present).

   Judge, ND Southeast Regional Science and Engineering Fair, Fargo, ND, No. (March 14, 2017).

IV. OTHER ACTIVITIES NOT LISTED ABOVE

A. Publications


**B. Professional Honors and Highlighted Publications**

Article on Journal Cover page in Coatings 2016  
Invited minireview article in Materials 2016  
Invited review article in Health and Personal Care Today 2015  
Article Featured as Key Scientific Article in Advances in Engineering 2015

Invited Speaker at 3rd International Conference on Biopolymers and Bioplastics, 2016  
Chair of 2nd World Congress on New Technologies (NewTech’16), 2016  
Invited Speaker at ACS Spring meeting 2016  
Invited Speaker at 2nd International Symposium on Nanoparticles/Nanomaterials and Applications, 2016  
Invited Speaker at 2nd conference of International Society for Biomedical Polymers and Polymeric Biomaterials, 2015

**C. Industrial Collaborations**

<table>
<thead>
<tr>
<th>Company</th>
<th>Collaboration Details</th>
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<tr>
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<td>MTA/NDA</td>
</tr>
<tr>
<td>Celanese</td>
<td>MTA/NDA</td>
</tr>
<tr>
<td>Seppic/Air Liquide</td>
<td>MTA/NDA/samples shipped for testing</td>
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<tr>
<td>Interpolymer Corporation</td>
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<td>Arkema Coatings</td>
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ANNUAL FACULTY ACTIVITY REPORT
January 1, 2016 - December 31, 2017

Faculty Name: Dean C. Webster
Rank: Professor
College: Science and Mathematics
Department: Coatings & Polymeric Materials
Tenure Status: Tenured
On-leave: None

Effort Allocation

<table>
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<th>Responsibility</th>
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<tr>
<td>Teaching</td>
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<tr>
<td>Research</td>
<td>35%</td>
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<tr>
<td>Service</td>
<td>15%</td>
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<tr>
<td>Extension</td>
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</tr>
<tr>
<td>Administration</td>
<td>25%</td>
</tr>
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Ia. ADMINISTRATION

A. Goals for 2016

1. Continue to develop a comprehensive fund-raising plan for the department in collaboration with the Dean and Director of Development.

   Have made modest strides here since the main focus has been the Color Technology program. Had regular interaction with Director of Development. Department had 13 donations on the day of giving totaling $2205. Working to ensure that our alumni list is accurate.

2. Work to make the Color Science professional MS program a reality. While other professional programs might also be desirable in the long term, the focus should be on the Color Science program for the next year or so.

   Developed fundraising goals and a flyer to use for discussions. Gave presentation at the Color Forum in Cleveland in October. News article written in PCI Magazine. Contacted potential major donors to the program. One initial gift received.

B. Other accomplishments

1. Department newsletter was prepared and distributed.
2. Provided mentorship to Dante Battocchi and Mohi Quadir.
3. Attempted to hire Shannon Lloyd for the LCA faculty position. This involved extensive discussions and significant effort in finding a position for her partner at NDSU.
4. Carried out search and completed hiring of Bakhtiyor Rasulev for the Computational Science Position.
5. Initiated discussions for overhauling department graduate curriculum.
6. Held regular monthly faculty and staff meetings.
7. Communicated university, college, and department news to faculty and staff through email.
8. Was able to get criteria for Lowell Wood Scholarship changed to help department increase graduate student enrollment.

I. TEACHING, ADVISING, CURRICULUM DEVELOPMENT

A. Scheduled Teaching
### Fall 2016

<table>
<thead>
<tr>
<th>Course &amp; Section</th>
<th>Credit Hours Taught</th>
<th>% Resp</th>
<th>Grade Distribution</th>
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<th>Q4</th>
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### Spring 2016

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<th>Q4</th>
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### Spring 2017

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### B. Formal Advising

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<td>2015-2016</td>
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II. INTELLECTUAL CONTRIBUTIONS

A. Refereed Research Publications

1. Journal articles


B. Research Awards and Honors

Fellow of the American Chemical Society, American Chemical Society, Leadership. (August 2016).

Roon Foundation Award, American Coatings Association, Scholarship/Research. (April 2016).
First place best technical paper at the American Coatings Conference

C. Other Scholarly Activities

1. Conference Presentations


Webster, D. (Author), Krall, E. (Author & Presenter), Bader, T. (Author & Presenter). (2016). National Meeting of the American Chemical Society, "Model compound study to characterize the
development of acetoacetate functionalized resin derived from kraft lignin," American Chemical Society, Poster, San Diego, Ca. (Accepted)


Webster, D. (Author & Presenter), Ma, S. (Author). (2016). National Meeting of the American Chemical Society, "Sustainable thermosets from epoxidized sucrose soyae and carboxylic acids with the assistance of solvents," American Chemical Society, Oral Presentation, San Diego, Ca. (Accepted)


2. Publication Works in Progress

Ma, S., Webster, D. C. Degradable thermosets based on labile bonds or linkages: a review. Progress in Polymer Science.


D. Contracts, Grants, and Sponsored Research

1. Grants Submitted

Parent, Alex (Co-Principal:), Sibi, Mukund (Principal:), Webster, Dean (Co-Principal:), Cook, Gregory (Senior Personnel:), Kilina, Svetlana (Senior Personnel:), Khoda, Bashir (Senior Personnel:), Hobbie, Erik (Senior Personnel:), Ulven, Chad (Senior Personnel:), "PIRE: Institute for Developing REnewable Advances in Materials (I-DREAM)" (Not Awarded), Sponsored by National Science Foundation, Federal, $4,800,000.00. (September 1, 2017 - August 31, 2022).

Webster, Dean (Principal:), Zuber, Mohammad (Co-Principal:), "Synthesis, characterization and analysis of chitin/curcumin based polyurethanes with potential in biomedical applications" (Currently Under Review), Sponsored by USAID, Federal, $237,118.00. (September 1, 2017 - August 30, 2020).

Webster, Dean C (Principal:), "Highly flexible primer for aircraft Phase II" (Currently Under Review), Sponsored by Luna Innovations/Air Force, Federal, $100,000.00. (July 1, 2017 - June 30, 2019).
Quadir, Mohi (Principal: P.I.), Webster, Dean (Co-Principal: Co-P.I.), "Soy-derived chemicals as Advanced Bio- and Pharmaceutical Materials" (Not Awarded), Sponsored by ND Soybean Council, $50,000.00. (2017 - 2018).

Webster, Dean, "STTR Phase I: In-situ polymerization and compounding of additive manufacturing biocomposites" (Currently Under Review), Sponsored by NSF/c2renew, Federal, $90,000.00. (June 1, 2017 - November 30, 2017).

2. On-Going Research Support

Webster, Dean (Principal:), "Exploration of novel biobased chemicals in coatings systems" (Funded), Sponsored by DARPA, Federal, $360,000.00. (September 23, 2015 - July 17, 2020).

Webster, Dean (Principal:), "Novel tough and durable AF/FR coatings via self-stratification" (Funded), Sponsored by ONR, Federal, $497,124.00. (September 30, 2016 - October 1, 2019).

Webster, Dean (Principal:), Stafslien, Shane (Co-Principal:), "Amphiphilic siloxane-based fouling-release coatings for oil boom applications and comprehensive, biological laboratory efficacy testing" (Funded), Sponsored by ONR, Federal, $500,000.00. (January 1, 2017 - December 31, 2018).

Webster, Dean (Principal:), "Development of coating formulations for stone conservation" (Funded), Sponsored by NCPTT, Federal, $41,000.00. (September 14, 2016 - December 31, 2017).

Webster, Dean (Principal:), "Modified soybean oil in automotive rubber applications" (Funded), Sponsored by Ford Motor Company, Private, $77,851.00. (October 1, 2016 - September 30, 2017).

Webster, Dean (Principal:), Sibi, Mukund (Co-Principal:), "BiMAT: Biobased monomer and polymer systems for coatings" (Funded), Sponsored by BiMAT/ND DoC, Private, $150,000.00. (September 1, 2016 - August 31, 2017).

Webster, Dean, "BiMAT: Center for Biobased Materials Science and Technology" (Funded), Sponsored by North Dakota Department of Commerce, $1,132,500.00. (July 2013 - June 2017).

Webster, Dean C (Principal:), "Highly flexible primer for aircraft" (Funded), Sponsored by Air Force, Federal, $20,000.00. (July 1, 2016 - March 1, 2017).

Webster, Dean C (Principal:), "Screening latex coating formulations with high throughput methods" (Funded), Sponsored by Sherwin-Williams, Private, $50,000.00. (February 1, 2016 - December 31, 2016).

Ulven, Chad (Co-Principal:), Webster, Dean (Principal:), "Further Natural Fiber Composites Development with FibreCITY" (Funded), Sponsored by North Dakota Center of Excellence – BiMAT / Composites Innovation Centre (CIC), $96,000.00. (January 2015 - December 2016).

Ulven, Chad (Co-Principal:), Webster, Dean (Principal:), Sibi, Mukund (Co-Principal:), Sivaguru, Jayaraman (Co-Principal:), Chisholm, Bret (Co-Principal:), "Center for Sustainable Materials Science (CSMS)" (Funded), Sponsored by NSF EPSCoR, $732,105.00. (August 2014 - July 2016).

Webster, Dean, "Dakota Bioprocessing Consortium – Subaward" (Funded), Sponsored by NSF, $384,556.00. (August 2014 - July 2016).
III. PROFESSIONAL SERVICE

A. University Service

1. Thesis Committee Service

   Dissertation Committee Chair (In-Process)
   Advised: Jackson Benda
   Title:

   Dissertation Committee Chair (In-Process)
   Advised: Samantha Silbert
   Title:

   Dissertation Committee Chair (In-Process)
   Advised: Eric Krall
   Title:

   Dissertation Committee Chair (In-Process)
   Advised: Alison Rohly
   Title:

   Dissertation Committee Chair (Proposal)
   Advised: Arvin Yu
   Title:

   Dissertation Committee Chair (Proposal)
   Advised: Madhura Pade
   Title:

   Master's Thesis Committee Chair
   Advised: James Docken
   Title:

   Dissertation Committee Chair
   Advised: Joseph Byrom
   Title:

   Dissertation Committee Chair (Completed)
   Advised: Teluka Galhenage
   Title:

   Dissertation Committee Chair (Completed)
   Advised: Adlina Paramarta
   Title:
B. Professional Activities

1. Professional Service

   Editorial Review Board Member, Biofouling. (2013 - Present).

   Councilor, representing PMSE Division, American Chemical Society. (2012 - Present).


   Advisory Council member, Chemistry Department, Virginia Polytechnic Institute and State University. (1998 - Present).


      Served as an opponent for the PhD defense of Susana Torron, student of Mats Johansson.

IV. HONORS/AWARDS/RECOGNITIONS