

**Outreach Completed by Postdocs, GRAs and UGRAs
Year 3 – August 1, 2016 through July 31, 2017**

**Updated as of 12-12-2017
Outreach total Year 3 = 36**

DATE	EVENT	STUDENT or POSTDOC ASSISTING
2016-06-20 through 2016-08-05	PICNICS program mentor ➤ CSMS Topic: Manufacturing of a bio-composite bicycle helmet Supervised and trained a female high school student in the PICNICS program	GRA A. Amiri
2016-06-27 through 2016-07-29	Research Experiences for Teachers (RET) ➤ CSMS Topic: Manufacturing methods of composite materials using bio-based resin and natural fiber; supervised and trained teachers in the RET program	GRA A. Amiri
2016-09-18	NATURE Sunday Academy at United Tribes Technical College ➤ CSMS Topic: Bio-based Materials; taught bio-based lesson to students	GRA A. Clay GRA R. Singathi
2016-10-02	NATURE Sunday Academy at Turtle Mountain Community College ➤ CSMS Topic: Bio-based Materials; taught bio-based lesson to students	GRA A. Clay GRA R. Singathi
2016-10-22	Bison BEST Robotics competition at NDSU ○ Judge and pit crew staff	GRA A. Amiri
2016-11-20	NATURE Sunday Academy at Sitting Bull College ➤ CSMS Topic: Bio-based Materials; taught bio-based lesson to students	GRA A. Clay GRA R. Singathi
2016-12-08	Presentation at NDSU Chemistry Club meeting ➤ CSMS Topic: Sustainable Materials: Chemistry, Polymers and Academic Opportunities	GRA A. Yu GRA K. Kingsley GRA E. Krall GRA R. Chitemere
2016-12-11	NATURE Sunday Academy at Cankdeska Cikana Community College ➤ CSMS Topic: Bio-based Materials; taught bio-based lesson to students	GRA A. Clay GRA R. Singathi
2017-03-05	NATURE Sunday Academy at Nueta Hidatsa Sahnish College ➤ CSMS Topic: Bio-based Materials; taught bio-based lesson to students	GRA A. Clay GRA R. Singathi
2017-04-08	Expanding Your Horizons STEM conference ➤ CSMS Topic: Polymer Chemistry; performed experiments on the basics of polymer chemistry; showed examples of hydrogels; showed how dyes/pigmented dispersions work	GRA R. Chitemere GRA E. Krall
2017-04-08	Expanding Your Horizons STEM conference ➤ CSMS Topic: Fun With Polymers; co-hosted, made casein plastic, glowing silly putty and shape memory bands	GRA K. Grieger

2017-04-18 through 2017-04-28 **CSMS research groups poster display – EML walkthrough ramp**
 ➤ CSMS Topic: Summarizing CSMS groups' research on research posters



Webster group:
GRAs A. Yu and E. Krall

Ulven group:
GRAs A. Amiri and V. Burkart

Sibi group:
GRAs E. Serum and C. Sutton

Voronov group:
GRAs K. Kingsley and Z. Demchuk

Parent group:
GRA A. Kalbach

Quadir group:
GRA R. Chitemere

Sivaguru group:
GRAs A. Clay, R. Singathi and S. Ahuja

2017-04-22 **ND Science Olympiad** at NDSU's Bentson Bunker Fieldhouse **GRA Z. Demchuk**
 ○ Forensics booth; co-host, designed questions, conducted experiments

2017-04-23 **NDSU ECS-GSA* Earth Day Family Fair** **GRA K. Grieger**
 ➤ CSMS Topic: Bio-derived polymers; co-host, prepared casein plastic – an example of a bio-derived polymer
 * Environmental and Conservation Sciences Graduate Student Association

2017-05-25 **Polymer Chemistry Demonstration** at Fargo North High School **GRA K. Grieger**
 ➤ CSMS Topic: Polymer Chemistry; Invited by cooperating teacher from previous student teaching experience to give brief lesson on polymer chemistry to chemistry class; also outlined some of the CSMS research in that area and addressed formation of polymers through preparing silly putty