This agreement shall be separately registered and determined by both universities.

1. The universities agree to encourage the development of the following exchange programs.

   - Establishment of such exchange programs.
   - Understanding between their respective students and scholars will be increased by the research and educational process at both the institutions will be enhanced and the mutual understanding between their respective students, academic information and materials in the belief that the exchange of ideas will be based on the principle of reciprocity and express the interests of both parties.

2. The parties recognize that the implementation of any exchange program will depend upon the event.

   - Organization of other academic exchanges acceptable to both universities.
   - Organization of joint conferences.
   - Organization of joint research programs.
   - Exchange of joint publications and other publications.
   - Exchange of academic information and materials.
   - Joint supervision of M.S. and Ph.D. students.
   - Exchange of students (undergraduate and graduate).
   - Exchange of faculty.

Based on their respective academic and educational needs.

The Technical University Clausthal (TU Clausthal) and Virginia Polytechnic Institute and State University (Virginia Tech) agree to implement the Memorandum of Understanding.

TECHNISCHE UNIVERSITAT CLAUSTHAL
(Clausthal-TU, Germany)

AND

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
(Virginia Tech, USA)

MEMORANDUM OF UNDERSTANDING (MOU)
Date 3-13-12
Clausius-Zellefeld, Germany
TI Clausius
President
Dr. Dr.-Ing. Oliver Langfeld
Vice-President for Academic Affairs, and for the other institution.

Dr. Dr.-Ing. Oliver Langfeld, Vice-President for Academic Affairs, shall serve
as liaison officer for the agreement.

Tu Clausius, President

If any disagreement arises between the parties, both universities shall consider
the agreement.

4. The agreement shall become effective on the date represented on both universities'
other in carrying out the agreement.

5. For Virginia Tech, Dr. Gunh Gush, Vice President for International Affairs, and for

Dr. Charlie W. Steger