Open Access and Data Management

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- Offering critical new digital services in support of the creation, management, sharing, and preservation of digital data and scholarship
  - Data Management and Sharing
  - Data Education
  - Digital Library Development
  - Technology Development
  - Open Access Publishing
  - Open Education
  - Digital Imaging
  - Digital Scholarship Projects
  - Digital Preservation
Data Management & Sharing

- Data Services (9 FTE) and Digital Library Development (6 FTE) Teams
- Preparing a data management plan
- Archiving and publishing datasets in VTechData
- Developing data infrastructure
- Offering data education opportunities
- Supporting discipline-focused data and informatics projects
  - Sustainable software development
  - Data modeling, manipulation, visualization, and analytics
  - Preparing data for repository deposit
  - Transforming data for reuse
Preparing a Data Management Plan

Data Management Planning Tool
Create, review, and share data management plans that meet institutional and funder requirements.

https://dmptool.org
Archiving, Sharing, and Citing Data

- Practicing data sharing
  - re3data.org
  - VTechData
  - Publishing data papers
- Understanding the benefits of sharing
- Guidance on data citation

https://data.lib.vt.edu
Developing Data Infrastructure

- Advanced Research Computing’s archival storage environment
- Library Cyberinfrastructure project (PI: Zhiwu Xie)
  - $308, National Leadership Grant, IMLS LG-71-16-0037
  - Virginia Tech (Libraries, Computer Science, Mechanical Engineering)
  - Goals: developing a data infrastructure strategy that supports big data sharing and reuse
    - ARL/AAU/APLU SHARE open dataset of research release events
    - Digital Library Research Laboratory’s Event Digital Library and Archive
    - Smart Infrastructure Laboratory’s Goodwin Hall project
- VT Github project
- Geoblacklight implementation
- Open Science Framework
Programs & Community Development - Data

- Big data and data management workshops
- Course-embedded data skills instructional sessions
- Credit-bearing data courses
- Curriculum design and planning
Open Access (OA) & Publishing

- Scholarly Communication (7 FTE) and Publishing (3 FTE) Teams
- Supporting collaborative writing and OA publishing
- Archiving and publishing works of scholarship in VTechWorks
- Offering scholarly publishing programs
- Supporting publishing and digital humanities projects
  - Developing new Open Educational Resources
  - Developing new digital collections
  - Preparing materials for repository deposit
  - Preserving web archives
Supporting Collaborative Writing & OA Publishing

- Overleaf trial
  - Journal and OA repository templates
  - Exploring custom ETD template
- OA Journals, Proceedings, Books
- Open Access Subvention Fund
  - $86,000 awarded FY 2015/16
  - 63 articles supported
  - 172 unique VT authors
- ARL/AAU/AAUP Open Access Monograph Publishing Initiative
- Open Educational Resources Faculty Grant Program

Thermodynamics

About

This online textbook was developed during the summer of 2014 and is no longer being actively developed.

My Dear Students,

It is my pleasure to introduce you to this new web-based, open educational resource for the AME 2213 Thermodynamics course. I hope our summer project will be helpful to you as it will enable you to have free access at any time and place to the course materials and improve your learning environments by offering you global experience. To create this resource I was supported by The University of Oklahoma Library's Open Educational Resources Initiative, specifically Ms. Stacy Zemke who funded the project, educated us on the variety of licenses for open educational resources, and help us identify some of the materials. While I worked for the second part of this project remotely from my parents' house in Bulgaria, my two students – Brian Wanezek and Gene Ilchev helped me tremendously to finish the project before the beginning of the semester. Cody Taylor too helped create and organize the webpage. Finally, I would like to express my appreciation to Professor Uriel who four years ago created one of the first web-based educational resources for Thermodynamics. With his permission we used extensively his material here. I deeply value his expertise, pedagogical approaches, and teaching philosophy and I will continue to follow his advice and his presentations in the field and the community. Your input is very important and welcome as I believe it will improve the quality of this educational resource.

http://opentext.lib.vt.edu/thermodynamics/
Archiving and Publishing in VTechWorks

- Practicing Green OA Publishing in VTechWorks
  - Nearly 60,000 items
  - 5 million record views FY1516
  - 9 million file downloads FY1516
  - Integration with Elements-based Faculty Activity Reporting System
    - +1000 deposits since fall 2016

- Guidance on OA publishing and related issues

- Understanding the benefits of sharing

https://vtechworks.lib.vt.edu
Programs & Community Development - Scholarship

● Workshops on Open Access, copyrights, fair use, open education, publishing, altmetrics, researcher identifiers, and researcher profile systems
● Course-embedded scholarly communication skills instructional sessions

http://www.lib.vt.edu/openaccess/

Open Access Week 2016
October 24th - 30th

Click on the titles below to learn more about each scheduled event.

Ubiquity Press: A Platform for Open Publishing
Monday, October 24, 10:00 A.M.-11:15 A.M., Newman 207A

For the Public Good: Research Impact and the Promise of Open Access (Forum)
Monday, October 24, 6:30 P.M.-8:00 P.M., Torgersen 1100

Where Can I Post My Publications? VTechWorks, ResearchGate, and other options
Tuesday, October 25, 12:30 P.M.-1:30 P.M., Torgersen 1100

Publishing Services at Virginia Tech
Wednesday, October 26, 11:30 A.M.-12:30 P.M., Newman 426

Access to Research in South Africa
Wednesday, October 26, 2:30 P.M.-3:30 P.M., Library Multipurpose Room

Scholarly Publishing Trends: A Conversation
Thursday, October 27, 12:30 P.M.-1:30 P.M., Torgersen 3080

$100,000 Available to Publish Journal Articles
Friday, October 28, 2:30 P.M.-3:30 P.M., Newman 426
Digital Preservation Services

- Web archiving - ArchiveIT
- Digital preservation communities
  - MetaArchive
  - Academic Preservation Trust
  - Digital Preservation Network
OPEN RESEARCH PROGRAM FLOWS

GETTING PUBLISHED/GRANTS
- Open Access Subvention Fund
- Membership Discounts
- Data Management Plans
- OA Journal Quality Assessment

PRODUCING
- Open Journals
- Open Conference Proceedings
- Digital Project Support (OER)
- Digital Library Development

ARCHIVING
- VTechWorks
- VTechData
- EFARS integration
- Distributed Preservation

COMMUNICATING
- Researcher Identifiers (ORCID)
- CollabVT
- Creative Commons/Author Rights

MEASURING IMPACT
- Understanding metrics (Altmetrics)
- Embedding altmetrics in digital library services