



# Enabling Institutional Collaborations through the Sharing of Open Educational Resources and Practices

**Gerry Hanley, Ph.D.**

**Executive Director, MERLOT and SkillsCommons**

**Director, CSULB Center for Usability in Design & Accessibility**

**California State University, Long Beach**

**AUN-TEPL Workplan Seminar      May 26, 2023**



**ASEAN  
University  
Network**

## **CONFERENCE PURPOSES:**

- **Co-create faculty development resources that can stimulate TEPL**
- **Facilitate the multi-lateral exchange of courses for credit transfer across universities**
- **Share and amplify the use of digital learning resources on MERLOT**
- **Collaborate on TEPL research projects**

## **STRATEGIC PRIORITY for this presentation:**

- **Showcase the tools, resources and strategies that enable individuals and institutions within the AUN to reuse, revise, remix, retain, and redistribute free and open curriculum and pedagogies.**
- **Empower each institution to scale their faculty development & innovation strategies faster, more effectively, and in more affordable ways.**

# Education & Cooking

**Kitchen Equipment  
& Utensil:**

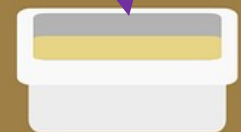
**Open  
Educational  
Services**

**Recipes & Know-How:**

**Open  
Educational  
Practices**

**Ingredients:**

**Open  
Educational  
Resources**



# FREE & Open Education Resources, Practices, and Services Enable Us All To:

- Learn From Each Other
- Effectively & Efficiently Collaborate with Others
- Accelerate Innovations
- Become real **LEARNING ORGANIZATIONS**



# Find AUN-TEPL Colleagues

# SmartSearch

What is SmartSearch?

Advanced Search by: [ISBN](#) | [Materials](#) | [Members](#)



**Log into  
MERLOT &  
Click!**

AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)

Materials from my institution

Members from my institution

# 474 MERLOT members in AUN-TEPL Institutions!

Search keywords, title, URL, ISBN, or author

Search

Advanced Search

Home / Member Search Results: partner "AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)" [Active & Inactive]

## MERLOT Members



Sort by Contributions

### Filter by

#### Discipline

- Academic Support Services (46)
- Arts (25)
- Business (61)
- Education (158)
- Health Sciences (30)
- Humanities (35)
- Mathematics and Statistics (21)
- Science and Technology (146)
- Social Sciences (45)
- Workforce Development (11)

#### Member Type

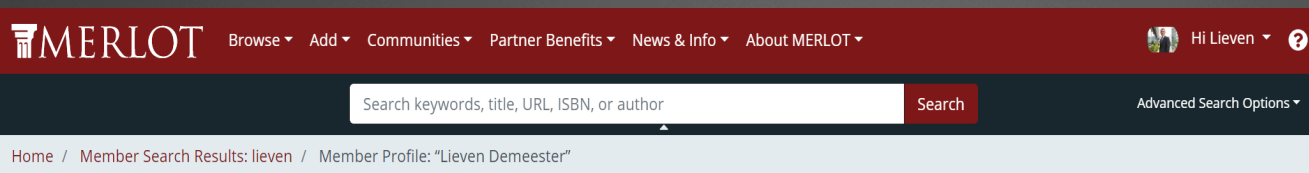
- Faculty (195)
- Staff (46)
- Student (128)
- Administrator (20)
- Librarian (8)
- Health Care Professional (9)
- Consultant (5)
- Teacher (K-12) (22)
- Content Developer/Instructional Designer (16)
- Researcher (9)
- Industry trainer/HR Specialist (1)
- Independent Learner (1)
- Home Educator (6)
- Technologist (3)
- Other (5)

#### Affiliation Categories

1-24 of 474 results for: partner "AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)" [Active & Inactive]

|   |   |  |   |  |   |   |
|---|---|--|---|--|---|---|
| <p><b>Bernie Koh</b></p> <p><b>Member Type:</b> Administrator<br/><b>Affiliation:</b> Singapore Management University<br/><b>Member Since:</b> February 28, 2020<br/><b>Last Logged In:</b> April 13, 2023</p> <p><a href="#">Go to Profile</a></p> | <p><b>Ferlynda Jamaludin</b></p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Universiti Malaysia<br/><b>Member Since:</b> September 11, 2022<br/><b>Last Logged In:</b> February 15, 2023</p> <p><a href="#">Go to Profile</a></p> | <p><b>Poh-Sun Seow</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Singapore Management University<br/><b>Member Since:</b> August 11, 2014<br/><b>Last Logged In:</b> December 20, 2022</p> <p><a href="#">Go to Profile</a></p> | <p><b>Sarocha Sereenonchai</b></p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Mahidol University<br/><b>Member Since:</b> May 24, 2022<br/><b>Last Logged In:</b> July 8, 2022</p> <p><a href="#">Go to Profile</a></p> | <p><b>Zahiruddin Fitri Abu Hassan</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Universiti Malaysia<br/><b>Member Since:</b> January 30, 2020<br/><b>Last Logged In:</b> September 9, 2021</p> <p><a href="#">Go to Profile</a></p> | <p><b>Anuchai Theeraroungchaisri</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> November 10, 2003<br/><b>Last Logged In:</b> July 24, 2017</p> <p><a href="#">Go to Profile</a></p> | <p><b>Mamoru Takezawa</b></p> <p><b>Member Type:</b> Teacher (K-12)<br/><b>Affiliation:</b> Waseda university<br/><b>Member Since:</b> October 21, 2016<br/><b>Last Logged In:</b> November 21, 2019</p> <p><a href="#">Go to Profile</a></p> |
| <p><b>Eng Tan</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Nanyang Technological University</p> <p><a href="#">Go to Profile</a></p>  | <p><b>Nurul Amelina Nasharuddin</b></p> <p><b>Member Type:</b> Content Developer/Instructional Designer<br/><b>Affiliation:</b> Universiti Putra Malaysia</p> <p><a href="#">Go to Profile</a></p>  | <p><b>Sukanda Jongsermtrakoon</b></p> <p><b>Member Type:</b> Student<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> October 29, 2012</p> <p><a href="#">Go to Profile</a></p>   | <p><b>Saruttaya Saimek</b></p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Mahidol University<br/><b>Member Since:</b> October 29, 2019</p> <p><a href="#">Go to Profile</a></p>   | <p><b>Patt Emmawat</b></p> <p><b>Member Type:</b> Administrator<br/><b>Affiliation:</b> Prince of Songkla University</p> <p><a href="#">Go to Profile</a></p>  | <p><b>Praweenya Suwannatthachote</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> August 15, 2009</p> <p><a href="#">Go to Profile</a></p>  | <p><b>weerapong prasongchean</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> April 14, 2014</p> <p><a href="#">Go to Profile</a></p>   |

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## Member Profile



**Lieven Demeester**  [Change Password](#)

Associate Professor of Operations Management Practice

**Primary Discipline:**

Business / Management / Production and Oper Mgnt

**Email:** ldemeester@smu.edu.sg 

**Social Media Connections:**

      (Manage Connections)

**Member Type:** Faculty

**Last Login:** August 4, 2020

**Member Since:** February 26, 2020

**Other Disciplines:**

Business / Management / Project Management

Business / Management / Strategy

### Contributions

- Submitted Materials
- Authored Materials
- Learning Exercises
- Bookmark Collections
- Course ePortfolios
- Content Builder Materials

- [Jumpstart your CV](#)
- [Update email notifications](#)

### Affiliations

**Primary Affiliation:** Singapore Management University (Education, Community/Technical College, Singapore)

**Secondary Affiliations:** AUNTEPL (Education, 4 Year/4 Year + Grad, Singapore)

SINGAPORE MANAGEMENT UNIVERSITY (Education, 4 Year/4 Year + Grad, Singapore)

MERLOT's Open Educational Services to open to you!

Add AUNTEPL as your secondary affiliation

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- Student (128)
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| <p><b>Eng Tan</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Nanyang Technological University</p>  | <p><b>Nurul Amelina Nasharuddin</b></p> <p><b>Member Type:</b> Content Developer/Instructional Designer<br/><b>Affiliation:</b> Universiti Putra Malaysia</p>  | <p><b>Sukanda Jongsermtrakoon</b></p> <p><b>Member Type:</b> Student<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> October 29, 2012</p>   | <p><b>Saruttaya Saimek</b></p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Mahidol University<br/><b>Member Since:</b> October 29, 2019</p>  | <p><b>Patt Emmawat</b></p> <p><b>Member Type:</b> Administrator<br/><b>Affiliation:</b> Prince of Songkla University</p>  | <p><b>Praweenya Suwannatthachote</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> August 15, 2009</p>  | <p><b>weerapong prasongchean</b></p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> April 14, 2014</p>   |



# 26 MERLOT members in AUN-TEPL institutions submitted materials

Search keywords, title, URL, ISBN, or author

Home / Member Search Results: partner "AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)" [Active & Inactive]

## MERLOT Members

Sort by

Filter by

1-24 of 26 results for: partner "AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)" [Active & Inactive]

### Discipline

- Academic Support Services (5)
- Arts (1)
- Business (5)
- Education (11)
- Health Sciences (2)
- Humanities (1)
- Mathematics and Statistics (1)
- Science and Technology (9)

### Member Type















- Faculty (10)
- Staff (5)
- Student (4)
- Administrator (2)
- Librarian (1)
- Teacher (K-12) (2)
- Content Developer/Instructional Designer (2)

### Affiliation Categories

- Non-Profit (1)
- Education (26)
- Government (1)

### Other Filters

- Has authored materials (14)
- Has submitted materials (26)
- Has submitted Content Builder materials (2)
- Has commented on materials

|  |   |  |   |   |  |  |
|--|---|--|---|---|--|--|
| <p><b>Bernie Koh</b></p>  <p><b>Member Type:</b> Administrator<br/><b>Affiliation:</b> Singapore Management University<br/><b>Member Since:</b> February 28, 2020<br/><b>Last Logged In:</b> April 13, 2023</p> <p><input type="button" value="Go to Profile"/></p> | <p><b>Ferlynda Jamaludin</b></p>  <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Universiti Malaya<br/><b>Member Since:</b> September 11, 2022<br/><b>Last Logged In:</b> February 15, 2023</p> <p><input type="button" value="Go to Profile"/></p>    | <p><b>Poh-Sun Seow</b></p>  <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Singapore Management University<br/><b>Member Since:</b> August 11, 2014<br/><b>Last Logged In:</b> December 20, 2022</p> <p><input type="button" value="Go to Profile"/></p>    | <p><b>Sarocha Sereenonchai</b></p>  <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Mahidol University<br/><b>Member Since:</b> May 24, 2022<br/><b>Last Logged In:</b> July 8, 2022</p> <p><input type="button" value="Go to Profile"/></p>       | <p><b>Zahiruddin Fitri Abu Hassan</b></p>  <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Universiti Malaya<br/><b>Member Since:</b> January 30, 2020<br/><b>Last Logged In:</b> September 9, 2021</p> <p><input type="button" value="Go to Profile"/></p> | <p><b>Anuchai Theeraroungchaisri</b></p>  <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> November 10, 2003<br/><b>Last Logged In:</b> July 24, 2017</p> <p><input type="button" value="Go to Profile"/></p> | <p><b>Mamoru Takezawa</b></p>  <p><b>Member Type:</b> Teacher (K-12)<br/><b>Affiliation:</b> Waseda university<br/><b>Member Since:</b> October 21, 2016<br/><b>Last Logged In:</b> November 21, 2019</p> <p><input type="button" value="Go to Profile"/></p> |
| <p><b>Eng Tan</b></p>  <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Nanyang Technological University<br/><b>Member Since:</b> January 11, 2018</p> <p><input type="button" value="Go to Profile"/></p>  | <p><b>Nurul Amelina Nasharuddin</b></p>  <p><b>Member Type:</b> Content Developer/Instructional Designer<br/><b>Affiliation:</b> Universiti Putra Malaysia<br/><b>Member Since:</b> March 27, 2021</p> <p><input type="button" value="Go to Profile"/></p> | <p><b>Sukanda Jongsermrakoon</b></p>  <p><b>Member Type:</b> Student<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> October 29, 2012<br/><b>Last Logged In:</b> August 1, 2021</p> <p><input type="button" value="Go to Profile"/></p> | <p><b>Saruttaya Saimek</b></p>  <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Mahidol University<br/><b>Member Since:</b> October 29, 2019<br/><b>Last Logged In:</b> January 11, 2022</p> <p><input type="button" value="Go to Profile"/></p> | <p><b>Patt Emmawat</b></p>  <p><b>Member Type:</b> Administrator<br/><b>Affiliation:</b> Prince of Songkla University<br/><b>Member Since:</b> September 7, 2012</p> <p><input type="button" value="Go to Profile"/></p>   | <p><b>Praweenya Suwannattachote</b></p>  <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> August 15, 2009<br/><b>Last Logged In:</b> June 26, 2013</p> <p><input type="button" value="Go to Profile"/></p>  | <p><b>SHAH MOHD IRWAN MAT ISHAK</b></p>  <p><b>Member Type:</b> Teacher (K-12)<br/><b>Affiliation:</b> Universiti Kebangsaan Malaysia<br/><b>Member Since:</b> May 27, 2015</p> <p><input type="button" value="Go to Profile"/></p>                         |

# 44 Materials Authored or Submitted by AUN-TEPL members

Home / Material Search Results: partner "AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)"

## MERLOT Materials

Sort by Overall Rating

Filter by 1-24 of 44 results for: partner "AUN Thematic Network on Technology-enhanced Personalised Learning (AUN-TEPL)"

### Discipline

- Academic Support Services (5)
- Business (17)
- Education (13)
- Humanities (5)
- Mathematics and Statistics (2)
- Science and Technology (9)
- Social Sciences (6)

### Material Type


- Animation (3)
- Assessment Tool (1)
- Collection (1)
- Development Tool (1)
- Learning Object Repository (3)
- Online Course (1)
- Online Course Module (6)
- Open (Access) Journal-Article (3)
- Presentation (1)
- Reference Material (2)
- Simulation (13)
- Tutorial (9)

### Audience

- Grade School (5)
- Middle School (10)
- High School (12)
- College General Ed (33)
- College Lower Division (22)
- College Upper Division (24)
- Graduate School (24)

|   |  |   |   |  |   |  |
|---|--|---|---|--|---|--|
| <h4>Online Tutorial for Revenue Cycle</h4> <p>This online tutorial teaches the revenue cycle in an undergraduate accounting information systems course. The online... see more</p> <p><b>Material Type:</b> Tutorial<br/> <b>Author:</b> Poh-Sun Seow; Gary Pan; Suay-Peng Wong<br/> <b>Date Created:</b> April 3, 2019<br/> <b>Date Modified:</b> January 28, 2021<br/> <b>Editor Review:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> | <h4>Red Flags Accounting Fraud Game</h4> <p>Red Flags Accounting Fraud Game is a single-player game that can be downloaded from the iOS and Google Play Store. Just... see more</p> <p><b>Material Type:</b> Simulation<br/> <b>Author:</b> Poh-Sun Seow; Gary Pan<br/> <b>Date Created:</b> October 7, 2019<br/> <b>Date Modified:</b> December 16, 2022<br/> <b>Peer Review:</b> ★★★★★<br/> <b>User Rating:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> | <h4>A Hunter's Tale</h4> <p>Project Description A Hunter's Tale is a single-player strategy game developed for the Law of International Trade course... see more</p> <p><b>Material Type:</b> Simulation<br/> <b>Author:</b> Gary Low; Bernie Koh<br/> <b>Date Created:</b> March 31, 2020<br/> <b>Date Modified:</b> December 1, 2021<br/> <b>Editor Review:</b> ★★★★★<br/> <b>User Rating:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> | <h4>Co-Founders of the North</h4> <p>Project Description Co-Founders of the North is a multi-player strategy game developed for the Managing Strategic Chance... see more</p> <p><b>Material Type:</b> Simulation<br/> <b>Author:</b> Xuesong Geng; Bernie Koh<br/> <b>Date Created:</b> March 31, 2020<br/> <b>Date Modified:</b> February 22, 2021<br/> <b>Editor Review:</b> ★★★★★<br/> <b>User Rating:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> | <h4>CSI: Agent on a Mission. Customer...</h4> <p>Project Description The CSI: Agent on a Mission is a single-player mobile game developed for the Introductory Statistics... see more</p> <p><b>Material Type:</b> Simulation<br/> <b>Author:</b> Bernie Koh; Rosie Ching<br/> <b>Date Created:</b> March 31, 2020<br/> <b>Date Modified:</b> February 22, 2021<br/> <b>Editor Review:</b> ★★★★★<br/> <b>User Rating:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> | <h4>Digital Learning Resource on...</h4> <p>To support of SMU's initiative of promoting Blended &amp; Personalized Learning, an interactive online DLR on Financial... see more</p> <p><b>Material Type:</b> Learning Object Repository<br/> <b>Author:</b> Yuanto Kusnadi<br/> <b>Date Created:</b> May 23, 2022<br/> <b>Date Modified:</b> July 26, 2022<br/> <b>Editor Review:</b> ★★★★★<br/> <b>User Rating:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> | <h4>Dynamic Spreadsheets on External...</h4> <p>This online learning tool is designed to introduce a novel and refreshing way in teaching accounting and finance concepts... see more</p> <p><b>Material Type:</b> Learning Object Repository<br/> <b>Author:</b> Yuanto Kusnadi; Bernie Koh<br/> <b>Date Created:</b> July 3, 2022<br/> <b>Date Modified:</b> July 21, 2022<br/> <b>Editor Review:</b> ★★★★★</p> <p style="text-align: right;"><a href="#">More info</a><br/> <a href="#">Bookmark</a> <a href="#">Go to material</a></p> |
| <h4>Inn or Out - Yield Management...</h4>   | <h4>Online Tutorial for Expenditure Cycle</h4>   | <h4>Online Tutorial for REA...</h4>   | <h4>Resource-Event-Age...</h4>  | <h4>Revenue &amp; Expenditure Cycle Learning...</h4>   | <h4>STARS Cafe</h4>   | <h4>Stranded - A Spark of Hope   Centre...</h4>  |

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Submitting a material to MERLOT is easy! Simply enter as many details about the material as you can. The more information you enter, the easier it will be for others to find the material in MERLOT. Keep in mind that MERLOT only stores the metadata for the material and links out to it with the URL you provide.


URL \*

Or

Title \*

Visible to MERLOT partners only; not the entire MERLOT community.

Disciplines \* Use selector below to choose a discipline.

Select a discipline... 

Description \* 

Keywords

Enter multiple keywords, separating them with a comma or semicolon. Click Add when all words are entered. (200 character limit per keyword)

## ADD materials to MERLOT

Catalog the materials by filling out the form

Add AUNTEPL as a keyword



# 46 MERLOT members in AUN-TEPL institutions created Bookmark Collections

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|   |   |  |   |  |   |  |
|---|---|--|---|--|---|--|
| <p>Anuchai Theeraroungchaisri</p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> November 10, 2003<br/><b>Last Logged In:</b> July 24, 2017</p> <p> <a href="#">Go to Profile</a></p> | <p>Mamoru Takezawa</p> <p><b>Member Type:</b> Teacher (K-12)<br/><b>Affiliation:</b> Waseda university<br/><b>Member Since:</b> October 21, 2016<br/><b>Last Logged In:</b> November 21, 2019</p> <p> <a href="#">Go to Profile</a></p> | <p>Sukanda Jongsermtrakoon</p> <p><b>Member Type:</b> Student<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> October 29, 2012<br/><b>Last Logged In:</b> August 1, 2021</p> <p> <a href="#">Go to Profile</a></p> | <p>Saruttaya Saimek</p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Mahidol University<br/><b>Member Since:</b> October 29, 2019<br/><b>Last Logged In:</b> January 11, 2022</p> <p> <a href="#">Go to Profile</a></p> | <p>Patt Emmawat</p> <p><b>Member Type:</b> Administrator<br/><b>Affiliation:</b> Prince of Songkla University<br/><b>Member Since:</b> September 7, 2012<br/><b>Last Logged In:</b> April 25, 2023</p> <p> <a href="#">Go to Profile</a></p> | <p>weerapong prasongchean</p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> April 14, 2014<br/><b>Last Logged In:</b> July 2, 2014</p> <p> <a href="#">Go to Profile</a></p> | <p>SHAH MOHD IRWAN MAT ISHAK</p> <p><b>Member Type:</b> Teacher (K-12)<br/><b>Affiliation:</b> Universiti Kebangsaan Malaysia<br/><b>Member Since:</b> May 27, 2015<br/><b>Last Logged In:</b> June 27, 2016</p> <p> <a href="#">Go to Profile</a></p> |
| <p>Naoya INABA</p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Waseda university<br/><b>Member Since:</b> February 24, 2013</p> <p> <a href="#">Go to Profile</a></p>  | <p>Amira Firdaus</p> <p><b>Member Type:</b> Staff<br/><b>Affiliation:</b> Universiti Malaya<br/><b>Member Since:</b> November 7, 2020</p> <p> <a href="#">Go to Profile</a></p>   | <p>Tsutomu SUZUKI</p> <p><b>Member Type:</b> Librarian<br/><b>Affiliation:</b> Waseda university<br/><b>Member Since:</b> February 24, 2013</p> <p> <a href="#">Go to Profile</a></p>  | <p>Muhammad Azzam Ismail</p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Universiti Malaya<br/><b>Member Since:</b> April 4, 2017</p> <p> <a href="#">Go to Profile</a></p>  | <p>Amira Firdaus</p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Universiti Malaya<br/><b>Member Since:</b> April 4, 2017</p> <p> <a href="#">Go to Profile</a></p>   | <p>Beibei Zheng</p> <p><b>Member Type:</b> Student<br/><b>Affiliation:</b> Nanyang Technological University</p> <p> <a href="#">Go to Profile</a></p>   | <p>Pornpan Udomkanjananan</p> <p><b>Member Type:</b> Faculty<br/><b>Affiliation:</b> Chulalongkorn University<br/><b>Member Since:</b> February 20, 2008</p> <p> <a href="#">Go to Profile</a></p>   |

# Creating & Sharing Your MERLOT Bookmark Collection

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Home / MERLOT Materials / Material Detail: DNA from the Beginning

## Material Detail

### DNA from the Beginning



**DNA from the Beginning** is an animated tutorial on DNA, genes and herec behind each concept is explained using animations related to DNA topics, a video interviews, problems, biographies, and links related to DNA. There ar Classical Genetics, Molecules of Genetics and Organization of Genetic Mate are the clear explanations of classical experiments and the...

Show More

**Keywords:** genetics, genes, DNA, DNA models, History about DNA

**Disciplines:**

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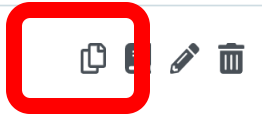
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# Bookmark Collection

## AUN-TEPL



This bookmark contains all material that is featuring in the AUN-TEPL network.

**Date Added to MERLOT:** December 3, 2019

**Created by:** Saruttaya Saimek

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### Collection Content

Listening and Speaking for Communication - MOOC (Online Course)



Management Accounting - Process Costing (Online Course Module)



Red Flags Accounting Fraud Game (Simulation)



Mind the Drone (Simulation)



# AUN-TEPL Co-Creating A Curated, Shared Collection

- ▶ To-date, the collection has focused on discipline-specific teaching & learning resources.
- ▶ The next focus is on faculty development resources that can help accelerate curriculum development and sharing.

# MERLOT's Academic Support Portals for Faculty Development:



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## Community Portals



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Open Educational Practices and ePortfolios



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Virtual Labs





# Virtual Labs



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- Biology
- Chemistry
- Physics
- Earth/Environmental Science
- Engineering
- Math
- Health Sciences

## Welcome to MERLOT, Labs by Design, and Partners!

Science faculty throughout the world are using virtual labs to engage students in learning through active participation rather than passive observation. Technological advances, and mobile access make virtual labs an increasingly viable part of the teaching and learning.



## Biomechanics Takehome Labs: Build-Your-Own Test System

# The Take-Home L

## Lab Goals

1. Give students the opportunity
  - o Learn the key compone
2. Collect force and deformation
3. Apply numerical analysis tech
  - o Provide experience pro
  - o Fitting mathematical rel
  - o Practice conducting err

Students were split into self-selected own desktop tensile testing system.

## Lab Activities

### Lab 1

1. Lab kit assembly
2. Calibrating the force sensor
3. Measuring force and deform elastic spring

For each lab, the students submitte

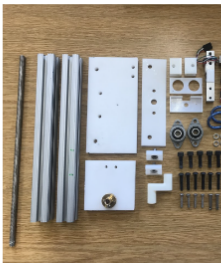
- Plots of their data, as instruc
- Answers to post-lab question
- Written to help students draw

Labs were assigned in the last mor

- Students were given two we

### Labs in Action

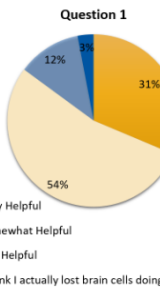
Students could see real-time force



Each lab kit contained all of the in required to conduct the take-home

**Question 1:** "In your opinion, how helpful were the lab at

**Question 2:** "How helpful were the labs in increasing yo



### Student Quotes:

"The real-time graphs generated in MATLAB helped me t the "real-world" in my learning process."

"Generating the graphs from the data was a bit confusing MATLAB/Excel... .. But once the graphs were generated

"I enjoyed working through the post-lab questions with fr setting up the lab as it made us feel like we were actually

"I feel like since we worked in groups, I didn't get a full gr physically did the experiments and answered post lab qu part. But that's the nature of group work."

"I thought it really help enforce some of the ideas in class the end of the semester and it was on top of all the other

**Question:** Compared to a traditional "n-class" lab, did th

**Question:** Compared to traditional "n-class" labs, how e

## LIT Results and I

### LIT Redesign Impact on 1

- How has the course redesign course?
- Describe how your students
- Did you experience unexpect
- Consider attaching a more ir including samples of student

### Assessment: Overall Cou

- The final course grades for significantly different pre-an of the semester, and they we

## Instructor Reflection

The LIT program was a great experience, and I am looking forward to expanding on these take-home labs for this class and beyond. Based on some excellent feedback from the LIT group during the final presentation, I will be incorporating some in-person and video instruction into the take-home labs when they are assigned again next Spring, and am excited to see how these sessions are received by the students. There were also some suggestions to connect with our MakerSpace labs here on campus to use these kits as examples of designs and systems students can build for other engineering (and other STEM) course and research projects. I will definitely be pursuing this option as a first step to getting the systems disseminated to the wider scientific, engineering, and education communities.

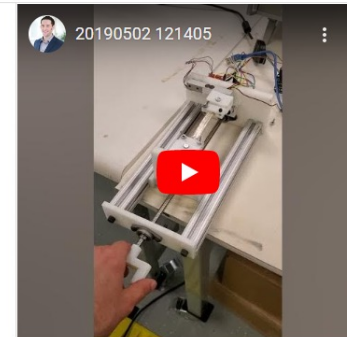
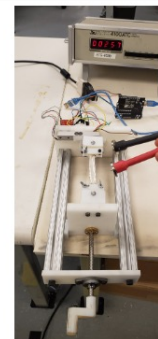
I had two great students working on this project with me, and they did a fantastic job designing the kits, assembling them for the BME 167 students, and then providing technical assistance to the students as they worked on the labs. Our next steps are to put together a manuscript documenting the system they designed, and using the LIT experience as a showcase for how this system can be implemented into educational settings. I am working with these students to prepare this manuscript this Summer, and I have already recruited an undergraduate research student to perform additional validation work in the Fall.

## A Few Highlights to Share

A few students in the class saw some extra potential in the take-home lab kits, and decided to incorporate them into projects for other courses, and even their Senior Design projects.

In the picture and video on the right, we can see the system in action. This student's project aimed at characterizing the resistance of stretchable circuits, and was conducted in conjunction with a high-end contract manufacturing company:

"I took [the test system] to Jabll (company where he is an intern) when I was working on my senior project. We almost considered using it for our tests, but the Instron kept malfunctioning so in the end we were not able to."



A few students had a little fun around Easter, and decided to see how much a Peeps rabbit could stretch. While they chose the candy just for fun (unprompted by the instructor), it turned out to be an excellent opportunity for them to see the deformation behavior of a real-life (if slightly modified) biomaterial. Marshmallow is made of sugar and gelatin. Gelatin is just a reduced form of collagen, which is a major component to all soft tissues in mammals (tendons, ligaments, cartilage, bone, etc.) While the students thought they were having a little bit of fun, the joke is on them. It turns out they were learning!



# OVERWHELMED?

- ▶ MERLOT has **OPEN EDUCATIONAL SERVICES** that enable you and your institution to customize and curate all these resources and tools to be aligned with your needs and goals.
  - ▶ **MERLOT CONTENT BUILDER** is a website authoring tool to create, reuse, remix, revise, retain, and redistribute OER

# Preparing Teachers & Students for Hybrid & Online Learning With Open Educational Resources



[ASEAN University Network](#) and [MERLOT](#) have created this online resource to help teachers and students improve their teaching and learning online with Open Educational Resources (OER)

## Free Teaching and Learning Online Materials

### Teaching Online



**Teaching Online Resources**  
Free courses and resources to help you start teaching online.

### Learning Online



**Learning Online Resources**  
Free courses and resources to help your students learn how to learn online.

### Career/Tech Ed Resources



**Free Career & Technical Education Services**  
SkillsCommons offering free services to support workforce development and work-based learning.

### Share Your Successes



### Faculty Development Resources



### Accessibility



# You can customize this portal for your own institution

- ▶ Must be a MERLOT member
- ▶ Send me an email with your name & MERLOT profile
- ▶ I send you a copy of the website that will show up in your MERLOT Profile under the CONTENT BUILDER tab
- ▶ You edit the website like a Word document, publish it, and catalog it in MERLOT so others can find it easily. (<https://www.merlot.org/merlot/addMaterialFromCB.htm>)
- ▶ MERLOT hosts the website



# Reusing, Remixing, & Revising OER

**You can...**

- **Browse the library to get inspired**
- **Use the “ingredients” of different resources to develop your own “recipes” for innovative teaching and learning practices. MERLOT is YOUR KITCHEN!**
- **Share your “family recipes” for innovative classroom designs in the MERLOT “cookbook” so others can enjoy good teaching and learning strategies**

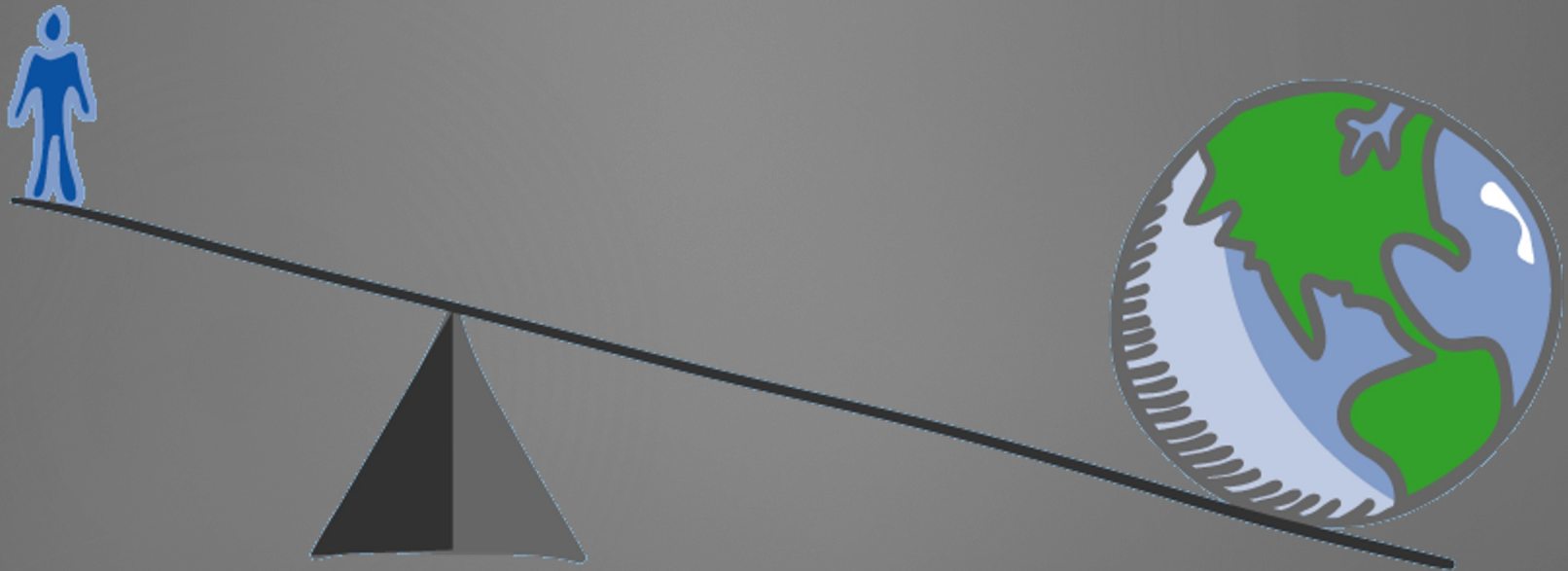
**CREATE AN ACCOUNT AND YOU ARE  
READY TO COOK UP QUALITY TEACHING  
AND LEARNING WITH MERLOT!**

# Invitation to Action!

- ▶ We can do better by growing the collections of OER and OEP so all have greater access to quality resources and pedagogies that are adopted by AUN.
- ▶ Invite people to share their knowledge, skills, and wisdom for the betterment of all.
  - ▶ Use MERLOT to share your teaching resources and know-how.



# Shall We Change the World as It Changes Us?



# By Being Better Together!

Mass = Educational Innovations



Mass = MERLOT & AUN-TEPL Community



# THANK YOU

[GERRY.HANLEY@CSULB.EDU](mailto:GERRY.HANLEY@CSULB.EDU)

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