A short overview of the collaboration between institutions in the United States of America and the University of Primorska and InnoRenew CoE
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BILATERAL SCIENTIFIC AND RESEARCH COOPERATION BETWEEN THE RS AND THE USA
UP / INNORENEW COE PROJECTS CO-FUNDED BY THE SLOVENIAN RESEARCH AGENCY

These research cooperation projects are intended to strengthen relationships between researchers and institutions in Slovenia and the USA. UP has enthusiastically participated in 66 of these projects since 2008.

<table>
<thead>
<tr>
<th>Years</th>
<th>Topics</th>
<th>No. of Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019–2021</td>
<td>Humanities, Mathematics, Natural Sciences, Social Sciences</td>
<td>11</td>
</tr>
<tr>
<td>2018–2020</td>
<td>Humanities, Mathematics, Natural Sciences, Social Sciences</td>
<td>8</td>
</tr>
<tr>
<td>2018–2019</td>
<td>Mathematics, Medicine, Plant Genetics, Wood Science</td>
<td>9</td>
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<tr>
<td>2017–2018</td>
<td>Computer Science, Mathematics, Social Sciences</td>
<td>4</td>
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<tr>
<td>2016–2017</td>
<td>Food Safety and Competitiveness, Forest Sector Business, Mathematics, Psychology</td>
<td>6</td>
</tr>
<tr>
<td>2015–2016</td>
<td>Computer Science, Mathematics, Social Sciences, Wood Science</td>
<td>10</td>
</tr>
<tr>
<td>2013–2014</td>
<td>Mathematics</td>
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<td>2012–2013</td>
<td>Mathematics, Social Sciences</td>
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<td>2008–2010</td>
<td>Mathematics</td>
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</tbody>
</table>

Members of the University of Primorska involved:
- UP FVZ – University of Primorska Faculty of Health Sciences
- UP FHŠ – University of Primorska Faculty of Humanities
- UP FM – University of Primorska Faculty of Management
- UP FAMNIT – University of Primorska Faculty of Mathematics, Natural Sciences and Information Technologies
- UP IAM – University of Primorska Institute Andrej Marušič

- Algebraic characterizations and combinatorial properties of (non)regular graphs with thin module of endpoint zero, UP IAM and University of Delaware, 2019–2021.
- F-WORM colorings in hereditary graph classes, UP IAM and Troy University, 2019–2021.
- Rational spline motions of a low degree, UP IAM and Mississippi State University, 2019–2021.
- Certain problems in hypergraphs, graphs, and games, UP FAMNIT and Rutgers University, 2019–2021.
- Social elites in the Late Bronze Age, UP FHŠ and City University of New York, 2019-2021.
- The cage problem, UP IAM and Mississippi State University, 2019-2021.
Chemical graphs on steroids, UP IAM and Massachusetts College of Liberal Arts, 2019-2021.

Development of US federalism and its comparison with the development of European integration (the effect of Brexit), UP FM and Harvard Law School, 2019-2021.


Wood chip technology for livestock heavy use areas to improve water quality: bilateral scientific, InnoRenew CoE and University of Vermont Extension Center for Sustainable Agriculture, 2019-2021.


Green consumerism in the eyes of consumer – what determines green purchase intention and consequently green consumerism?, UP FM and Bentley University, 2018-2020.


Plateaued functions and their applications, UP IAM and Emory University, 2018-2020.

Symmetry in Matroids, UP IAM and University of Mississippi, 2018-2020.

Tin isotope characterization of bronze artifacts in Slovenia, UP FHŠ and City University of New York, 2018-2020.

Grading in tetravalent half-arctransitive graphs, UP IAM and Northern Arizona University, 2018-2020.


The Impact of Labour Market Events on Health Status, UP FM and Iowa State University, 2018-2020.

Perception and performance assessment in bio-based architecture: bilateral scientific - research cooperation between RS and USA, InnoRenew CoE and Oregon State University, 2018-2020.


Molecular characterization of pomegranate (Punica granatum L.) and identification of unknown genotypes from north Adriatic region through the comparison of USDA collection, UP FAMNIT and University of California, Davis, 2018-2019.

Innovation and research management for improved renewable material processing, UP IAM and Oregon State University, 2018-2019.

Bipartite distance-regular graphs with exactly two irreducible T-modules with endpoint 2, both thin: subspace MW, UP IAM and Seattle University, 2018-2019.

Hamiltonicity of vertex-transitive graphs, UP IAM and Vanderbilt University, 2018-2019.

Color Preserving Automorphisms, UP IAM and Mississippi State University, 2018-2019.


Centralizers and related maps on rings and algebras, UP FM and Fayetteville State University, 2018-2019.

Motor control study of selected work tasks with the aim to develop ergonomic and kinesiological measures in case of low back pain, UP FVZ and Pennsylvania State University, 2018-2019.

New trends in chromatic graph theory, UP FAMNIT and Iowa State University, 2017-2018.

Computer Algorithm Development for Molecular Dynamics Simulation of Macromolecules, UP FAMNIT and NIH Laboratory of Computational Biology, 2017-2018.

Analysis of linked networks, UP IAM and Stanford University, 2017-2018.

Eco-innovation: An opportunity for international competitiveness and growth or imperative for environmental preservation. Maybe both, UP FM and Bentley University, 2017-2018.

Research and prevention of suicidal behavior, UP IAM and Oregon State University, 2016-2017.

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Leadership Diversity in Forest Sector Firms: Performance Impacts, UP IAM and Oregon State University, 2016-2017.


International competitiveness and marketing of safe and quality food, UP FAMNIT and Saint Joseph's University and Institute of Food Products Marketing, 2016-2017.

Genetic characterization and comparison of Adriatic figs with the USDA fig collection in California using molecular approaches, UP FAMNIT and University of California, 2014-2015.

Interlacing inequalities for simplicial complexes, UP IAM and Mississippi State University, 2015-2016.

The Use of Dynamical Mechanical Analysis (DMA) to Characterize Thermo-Hydro-Mechanically Densified Wood, UP IAM and USDA Forest Service, Forest Products Laboratory, 2015-2016.

Snap.py - a Pythonic interface to the large network analysis library SNAP, UP IAM and Stanford University, 2015-2016.

Cryptographic Boolean Functions and Graph Theory, UP IAM and Naval Postgraduate School, 2015-2016.


Hamiltonicity of vertex-transitive graphs, UP IAM and Vanderbilt University, 2015-2016.

Computer Algorithm Development for Molecular Dynamics Simulation, UP IAM and NIH/NHLBI/Laboratory of Computational Biology, 2015-2016.

Postural functions in older adults and in neurological disease patients, UP IAM and Pennsylvania State University, 2015-2016.

Driver and consequences of eco-innovation implementation on firms’ growth, competitiveness and internationalization, UP FM and Bentley University, 2015-2016.

Development of US federalism and its comparison with the development of European integration, UP FM and Harvard Law School, 2015-2016.

Using probability in Graph Theory and Networks, UP FAMNIT and University of California, Davis, 2014-2015.


Cliques, stable sets, and graph classes, UP IAM and Rutgers University, RUTCOR, 2014-2015.


Research and prevention of suicidal behavior, UP IAM and Oregon State University, 2014-2015.


Resolving the conjecture on almost cospectrality of the components of NEPS of graphs, UP IAM and University of Wisconsin-Madison, 2013-2014.


Strongly Regular (Di)graphs, UP IAM and Worcester Polytechnic Institute, 2012-2013.


Theoretical aspects and empirical analysis of flexicurity on labour market, UP FM and Iowa State University, 2012-13.

Legal and economics aspects of corporate governance in the public and private sector as a tool for overcoming economic and development crisis, UP FM and University of Maryland, 2012-2013.

Hamiltonicity of Vertex-transitive Graphs, UP PINT and Ohio State University, 2011-2012.

Semiregular Automorphisms in Vertex-transitive Graphs, UP PINT and Mississippi State University, 2009-2012.

Bipartite Distance-regular Graphs, UP PINT and University of Wisconsin-Madison, 2009-2010.

Vertex-transitive Graphs: Hamiltonicity and Semiregularity, UP PINT and Ohio State University, 2008-2010.
VISITING PROFESSORS AND RESEARCHERS AT UP / INNORENEW COE FROM THE USA

H. Arthur Bankoff, Brooklyn College
Michael Belch, San Diego State University
Leah Berman, University of Alaska Fairbanks
Endre Boros, Rutgers University
Kendall Conroy, Oregon State University
David DeValance, West Virginia University
Elizabeth Dickinson, West Virginia University
Andrew P. Fabel, Mississippi State University
Charles Frihart, Forest Products Laboratory
Henry H. Glover, Ohio State University
Ulrike Gretzel, University of Southern California
Vladimir Gurvich, Rutgers University
Eric Hansen, Oregon State University
Scott Heppell, Oregon State University
Frederick A. Kamke, Oregon State University
Melanie Kartalija, Storyology Research San Diego
David Kerr, Oregon State University
Mark L. Latash, Pennsylvania State University
Chi-Kwong Li, College of William and Mary
Bernard Lidicky, Iowa State University
Alison Gordon Lynch, University of Wisconsin–Madison
Mark Maclean, Seattle University
Tatiana S. Manolova, Bentley University
Roderick Mast, Conservation International
Ian S. McIntosh, Indiana University
Paul Medvedev, Pennsylvania State University
Lech Muszyński, Oregon State University
Peter Orazem, Iowa State University
Wayne G. Powell, Brooklyn College
Gabriel Hernan Pretel, University of Wisconsin–Madison
Vinod Sasidharan, San Diego State University
Laura Jean Sheppardson, University of Mississippi
David Stallcop, Universal Forest Products
Paul Terwilliger, University of Wisconsin–Madison
Nelson Velvet, Sam Houston State University
Craig Webster, Ball State University
Richard E. West, Brigham Young University
Gordon Williams, University of Alaska Fairbanks
Stephen Wilson, Northern Arizona University
Russell Stephen Woodroofe, Mississippi State University
Jonathan Woody, Mississippi State University
Andrew John Wright, George Mason University
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**AMC - ARS MATHEMATICA CONTEMPORANEA**

Ars Mathematica Contemporanea was founded by Prof. Dragan Marušič and Prof. Tomaž Pisanski. Many Americans serve on its highly international editorial and advisory boards. Science Citation Index placed this open source journal in the first quarter of scientific journals in the field of mathematics according to the journal’s impact factor.

Founding Editors and Editors-in-Chief:
**Dragan Marušič**, University of Primorska and University of Ljubljana, Slovenia
**Tomaž Pisanski**, University of Primorska and University of Ljubljana, Slovenia

Americans and academics from US institutions serving on Editorial and Advisory Board of the journal:
**Edward T. Dobson**, University of Primorska, Slovenia
**Gordon Ian Williams**, University of Alaska Fairbanks, United States
**Leah Wrenn Berman**, University of Alaska Fairbanks, United States
**Egon Schulte**, Northeastern University, United States
**Brigitte Servatius**, Worcester Polytechnic Institute, United States
**Herman Servatius**, Worcester Polytechnic Institute, United States
**Henry H. Glover** (1935–2011), Ohio State University, United States
**Jack Edward Graver**, Syracuse University, United States
**Jonathan L. Gross**, Columbia University, United States
**Branko Grünbaum**, University of Washington, United States
**Thomas W. Tucker**, Colgate University, United States
**Mark E. Watkins**, Syracuse University, United States
**Steve Wilson**, Northern Arizona University, United States

**ADAM - THE ART OF DISCRETE AND APPLIED MATHEMATICS**

ADAM is a modern, high-quality online open source international scientific journal in the field of discrete and applied mathematics. Since 2018, the journal has been published twice a year in English with abstracts in Slovenian. The journal is published open source by UP FAMNIT and Slovenian Discrete and Applied Mathematics Society.

Founding Editors and Editors-in-Chief:
**Dragan Marušič**, University of Primorska and University of Ljubljana, Slovenia
**Tomaž Pisanski**, University of Primorska and University of Ljubljana, Slovenia

Americans and academics from US institutions serving on Editorial and Advisory Board of the journal:
**Edward T. Dobson**, University of Primorska, Slovenia
**Egon Schulte**, Northeastern University, United States
**Janko Gravner**, University of California, Davis, United States
**Branko Grünbaum**, University of Washington, United States
**Thomas W. Tucker**, Colgate University, United States
IPBE - INTERDISCIPLINARY PERSPECTIVES ON THE BUILT ENVIRONMENT

In 2019, InnoRenew CoE established Interdisciplinary Perspectives on the Built Environment (IPBE), an open access, peer-reviewed journal that aims to publish high-quality research at the nexus of sustainability, health and the built environment.

IPBE’s editorial board and staff are international and interdisciplinary, including Americans and academics from US institutions:

- **Michael Burnard**, InnoRenew CoE and University of Primorska, Slovenia – Editor in Chief
- **David DeVallance**, InnoRenew CoE and University of Primorska, Slovenia – Topic Editor, Renewable Materials
- **Mariapaola Reggio**, Oregon State University, United States – Editorial Board
- **Xinfeng Xie**, Michigan Technological University, United States – Editorial Board
- **Elizabeth Dickinson**, InnoRenew CoE, Slovenia – Technical Editor

AMERICANS PUBLISHING GRADUATE TEXTBOOKS AT UP

- **Conder Marston**, Edward Dobson, Tatsuro Ito (2013): PhD Summer School in Discrete Mathematics
AGREEMENTS BETWEEN UP AND INSTITUTIONS IN THE USA

INSTITUTIONAL AGREEMENTS
St. Thomas University
Oregon State University
Ball State University
Dowling College
Hawai‘i Pacific University
Mississippi State University
University of Kansas

EXCHANGE AGREEMENTS
Mississippi State University
Ball State University
Indiana University
Oregon State University
San Diego State University
West Virginia University
Bentley University
A short overview of the collaboration between institutions in the United States of America and the University of Primorska and InnoRenew CoE

WORKSHOPS ORGANIZED IN COOPERATION WITH UNIVERSITIES FROM THE USA

7th annual Mississippi Discrete Mathematics Workshop
Oxford (USA), November 26-27, 2019

6th annual Mississippi Discrete Mathematics Workshop
Oxford (USA), November 10-11, 2018

5th annual Mississippi Discrete Mathematics Workshop
Oxford (USA), November 4-5, 2017

4th annual Mississippi Discrete Mathematics Workshop
Oxford (USA), November 14-15, 2015

3rd annual Mississippi Discrete Mathematics Workshop
Starkville (USA), November 15-16, 2014

2nd annual Mississippi Discrete Mathematics Workshop
Starkville (USA), November 2, 2013

Participants of the 7th annual Mississippi Discrete Mathematics Workshop, 2019.
SUMMER SCHOOLS ORGANIZED IN COOPERATION WITH OREGON STATE UNIVERSITY

The summer schools organized between University of Primorska and Oregon State University bring undergraduate and graduate students together in Slovenia and the region to learn about specific topics while visiting important locales. Students from both countries spend time with each other and build lasting friendships while learning about their topics and gaining unique experiences.

- Production of Housing in Europe: Innovation, conservation and design with natural resources, June 2015

- The forest sector’s contribution to sustainability of the built environment in Alpine Europe, June 2017
• International School of Marine Conservation Science – isMSC, June 2018

• Alpine Europe: Innovation in the Circular Economy, June 2019
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CURRENT EMPLOYEES FROM THE USA

Some US members of the InnoRenew CoE team with director Andreja Kutnar.

Michael David Burnard
Assistant Professor at UP FAMNIT and Researcher at UP IAM
InnoRenew CoE Deputy Director
Research Group Leader for Human Health in the Built Environment at InnoRenew CoE
Research Field: Biotechnical Sciences/Forestry, Wood and Paper Technology/Wood Technology
Previous Institution: Oregon State University
Contact: michael.burnard@iam.upr.si

David Brian DeVallance
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Associate Professor at UP FAMNIT and Researcher at UP IAM
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Research Field: Renewable Composite Materials
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Contact: david.devallance@upr.si

Elizabeth Dickinson
Project Manager and Language Editor at InnoRenew CoE
Research Field: Project Management and English Language
Previous Institution: West Virginia University
Contact: elizabeth.dickinson@innorenew.eu

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Edward Tauscher Dobson
Full Professor at UP FAMNIT and Researcher at UP IAM
Research Field: Mathematics
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Researcher at InnoRenew CoE
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Assistant Researcher at InnoRenew CoE
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Russell Stephen Woodroofe
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FULBRIGHT SCHOLARS FROM UNIVERSITY OF PRIMORSKA IN THE USA

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Professor of Mathematics and former Rector of the University of Primorska
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Fulbright Scholar from 2010-2011 at Ohio State University
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Štefko Miklavič
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AT UNIVERSITY OF PRIMORSKA
FROM THE USA

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Nelson Velvet

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Thomas Michael Maher

Professor of Media and Democracy, and American Communication Theory
University of Louisiana at Lafayette, Department of Communication
Fulbright Scholar in 2016 at the Faculty of Humanities
Contact: maher@louisiana.edu
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Professors István Kovács, Klavdija Kutnar and Dragan Marušič visiting Villanova University (Pennsylvania, USA).
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Summer school organized by Oregon State University and University of Primorska, Production of Housing in Europe: Innovation, conservation and design with natural resources, June 2015.
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