Department of Population & Public Health Sciences

Annual Report:

July 1, 2020 – June 30, 2021

Marietta Orlowski, Ph.D., MCHES, CPH
Professor and Chair
Statement from the Chair

Despite being socially distanced from one another for most of the academic year, our team of faculty, staff, and students worked together to provide quality education and research. We learned new ways to use technology to accomplish our work and found creative ways to stay connected.

The pandemic changed us and we, in turn, will change the way we operate. As we move into the next academic year, we take with us our enhanced technology skills and our appreciation for in-person interactions. We are building more technology-enhanced outreach and learning activities and will continue to support to our local public health agencies.

Academics

The department implemented numerous new recruitment strategies, including launching a digital marketing campaign and filming an alumni video. We eliminated the extra program fee for department courses and implemented a new holistic admissions and consideration process. We hosted 10 virtual M.P.H. open house events and appreciated the participation of numerous faculty and alumni.

We also welcomed the inaugural three recipients of the Boonshoft Public Health Workforce Scholarship and selected three additional public health employees for the 2021-2022 awards. In addition, faculty member Ken Dahms provided a generous gift to create the new Master of Public Health Scholarship. In Fall 2021, the department will host our first alumni giving campaign in support of the scholarship fund.

Thirty-eight M.P.H. students, including one dual degree student (M.D./M.P.H.), enrolled during the 2020-2021 academic year, and the program graduated 9 M.P.H. students. The department held a virtual graduation recognition ceremony to celebrate our M.P.H. students’ accomplishments at the end of the Spring 2021 semester. Many families, friends, and pets attended the virtual celebration, making the event particularly special for all those attending.

Research

The department’s research centers conducted work related to substance use, behavioral health, and disabilities. The faculty and staff of these centers directed 20 grants totaling over $4.6 million in annual expenses. The research teams made 15 national, state, and local presentations. Research faculty also took more active roles in the education center including co-teaching courses and supervising student research capstones.

Faculty and students also assisted five local public health departments with COVID-19 case investigation and contact tracing. We hired and trained 60 Wright State students from several disciplines to work as contact tracers and team supervisors. At the project’s peak, our students provided over 500 hours a week of investigation and contact tracing.

Looking forward, the vision for PPHS is to be recognized as the leader of population and public health initiatives within the university and across southwest Ohio. Goals for the upcoming year are to expand the amount and type of department research and grow enrollment in public health education programs. We will continue to look for opportunities to operate more centrally, expand marketing and community outreach, and explore ways to contribute to a more equitable community.
### Programs/Divisions

<table>
<thead>
<tr>
<th>Name of Division or Program</th>
<th>Director</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>Education Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aerospace Medicine Certificate</td>
<td>Thomas Jarnot M.D., M.S.</td>
<td>2019 – Present</td>
</tr>
<tr>
<td>Epidemiology Certificate</td>
<td>Sara Paton Ph.D.</td>
<td>2018 – Present</td>
</tr>
<tr>
<td>Health Care Management Certificate</td>
<td>John McAlearney Ph.D.</td>
<td>2003 – Present</td>
</tr>
<tr>
<td>Master of Public Health Program</td>
<td>Sara Paton Ph.D., M.S.</td>
<td>2015 – Present</td>
</tr>
<tr>
<td>Public Health Leadership Certificate</td>
<td>John McAlearney Ph.D.</td>
<td>2016 – Present</td>
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<tr>
<td>Center for Interventions, Treatment, and Addictions Research (CITAR)</td>
<td>Sydney Silverstein Ph.D.</td>
<td>2020 – Present</td>
</tr>
<tr>
<td>Substance Abuse Resources and Disability Issues (SARDI)</td>
<td>Jo Ann Ford M.R.C.</td>
<td>2018 – Present</td>
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### Fully Affiliated Faculty

<table>
<thead>
<tr>
<th>Name and Academic Position</th>
<th>Education Center</th>
<th>Research Interests</th>
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</thead>
<tbody>
<tr>
<td>Timothy N. Crawford Ph.D., M.P.H. Assistant Professor</td>
<td>Education Center</td>
<td>HIV &amp; Aging; engagement in HIV care; HIV stigma; multi-morbidity patterns; LGBT health; analysis of existing data; mediation &amp; longitudinal analyses; substance use</td>
</tr>
<tr>
<td>Jo Ann Ford M.R.C. Instructor</td>
<td>SARDI</td>
<td>Behavioral health including substance use education and treatment, disability, HIV prevention, and mental health</td>
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<tr>
<td>Sheri Gladish M.D. Assistant Professor</td>
<td>Education Center</td>
<td>Undergraduate science education; environmental medicine; human factors in multiple environments; emergency preparedness</td>
</tr>
<tr>
<td>Amanda Hinson-Enslin Ph.D., M.P.H., CHES Assistant Professor</td>
<td>Education Center</td>
<td>Health information-seeking behaviors, including individuals who experience disabilities, wellbeing among students</td>
</tr>
<tr>
<td>Thomas F. Jarnot M.D., M.S. Assistant Professor</td>
<td>Education Center</td>
<td>Human factors in aerospace accident investigation; aircrew flight training; enhancing flight surgeon pilot/patient rapport to optimize aviation safety</td>
</tr>
<tr>
<td>Naila Khalil M.B.B.S., Ph.D., M.P.H., CPH Professor</td>
<td>Education Center</td>
<td>Environmental exposures and chronic disease, endocrine disruptors, climate change</td>
</tr>
<tr>
<td>Nicole Kinzeler Ph.D. Assistant Professor</td>
<td>Education Center &amp; SARDI</td>
<td>Program evaluation; substance use education and treatment; HIV prevention; disability</td>
</tr>
<tr>
<td>John McAlearney Ph.D. Assistant Professor</td>
<td>Education Center</td>
<td>Electronic medical record data analysis; international health care system comparisons; health care applications for geographic information systems</td>
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<tr>
<td>Ramzi W. Nahhas Ph.D., Professor</td>
<td>(GIS); health care costs; provider payment; community health centers and FQHCs; insurance and uninsurance issues; health care quality improvement; provider recruitment/retention; and physician education</td>
</tr>
<tr>
<td>Marietta Orlowski Ph.D., MCHES, CPH Professor</td>
<td>Risk reduction in children and adolescents; building capacity for community-based program evaluation; theoretical framework of public health programs and policy</td>
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<tr>
<td>Sara J. Paton Ph.D., M.S., CPH Associate Professor</td>
<td>Maternal and child health; health assessment; nutrition; emergency preparedness</td>
</tr>
<tr>
<td>Cristina Redko Ph.D. Associate Professor</td>
<td>Global health; global health education; systems thinking</td>
</tr>
<tr>
<td>Sydney Silverstein Ph.D. Assistant Professor</td>
<td>Medical anthropology, addiction &amp; recovery, illicit drugs, gender, health disparities, infrastructure, multimedia practice, ethnographic film, material culture, collaborative research, Peru, Amazonia, urban US</td>
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<tr>
<td>Josephine Wilson D.D.S., Ph.D. Professor</td>
<td>Substance use disorders, eating disorders, technology applications to improve accessibility to assessment, treatment, and recovery for individuals with disabilities</td>
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### Teaching

#### Baccalaureate Courses - Taught

ASM 1717 Humans and Machines at Extremes (Gladish – Summer 2020 / Fall 2020 / Spring 2021)
PPH 2100 Climate Change and Health (Khalil – Fall 2020 / Spring 2021)

#### Baccalaureate Courses - Guest Lectures

BIO 1080 Introduction to Public Health (McAlearney, Paton, Silverstein)
EES 4720 Epidemiology & Community Health (Paton)

#### Graduate Courses - Taught

ASM 7370 Aerospace Toxicology (Jarnot – Summer 2021)
ASM 7571 Aerospace Skills for Healthcare Providers I (Jarnot – Summer 2020)
ASM 7771 Fundamentals of Aerospace Medicine I (Jarnot – Fall 2020)
ASM 7871 Space Medicine I (Jarnot – Spring 2021)
FIN 7500 Financial Management of Health Service Organizations (Hogan [adjunct] – Fall 2020 / Spring 2021)
PPH 6100 Biostatistics for Health Professionals (Crawford – Fall 2020)
PPH 6200 Public Health Epidemiology (Paton – Spring 2021)
PPH 6300 Environmental Health (Khalil – Spring 2021)
PPH 6400 Social & Behavioral Determinants of Health (Orlowski – Spring 2021)
PPH 6500 Health Resource Management & Policy (McAlearney – Summer 2020 / Spring 2021)
PPH 7150 Applied Epidemiology (Chronic Diseases) (Crawford – Spring 2021)
PPH 7160 Advanced Biostatistics for Health Professionals (Nahhas – Spring 2021)
PPH 7170/7920 Public Health Epidemiology II (Khalil – Fall 2020)
PPH 7410 Community Assessment (Paton – Summer 2020 / Fall 2020)
PPH 7420 Health Program Planning & Evaluation (Hinson-Enslin – Summer 2020)
PPH 7430 Health Awareness and Advocacy Communication (Saunders [adjunct] – Fall 2020)
PPH 7440/7920 Public Health Project Management (Hinson-Enslin – Spring 2021)
PPH 7510 Strategic Leadership in Health Care Organizations (Syron [adjunct] – Fall 2020; Miller [adjunct] – Spring 2021)
PPH 7520 Problems in Population Health (Redko – Summer 2020)
PPH 7640 Principles of Emergency Preparedness (Gebhart – Fall 2020)
PPH 7650 Public Health Crisis & Consequence Management (Gladish – Spring 2021)
PPH 7660 Public Health Terrorism Preparedness (Gebhart – Summer 2020)
PPH 8110 Public Health Applied Practice Experience (Paton – Summer 2020/ Fall 2020/ Spring 2021)
PPH 8210 Public Health Integrative Learning Experience I (Kinzeler – Fall 2020)
PPH 8220 Public Health Integrative Learning Experience II (Kinzeler – Fall 2020)
PPH 8230 Public Health ILE Continued Credit (Kinzeler – Spring 2021)

**Undergraduate Medical Education**

Clinical Medicine/ Upstream Medicine Guest Lecture (McAlearney)
Host and Defense Module Guest Lectures (Crawford)

**Continuing Medical Education (grand rounds, seminars)**

Guest Lecture for the Department of Surgery’s Grand Rounds (McAlearney)
Guest Lecture for the Department of Psychiatry’s Grand Rounds (Nahhas, Silverstein)
Guest Lecture for the Department of Psychiatry’s Scholar’s Forums (Nahhas)
Developed online modules using R and SPSS in research for BSOM students (Nahhas)
Scholarly Activity

Funded grants


Boonshoft School of Medicine Collaborative, Translational Research Seed Grant. **Silverstein (Co-PI)**, 2021-2022, $15,000.

Boonshoft School of Medicine Collaborative, Translational Research Seed Grant. **Crawford (PI)**, 2021-2022, $4,975.

Butler County Board of Health. Supplemental Contact Tracing - Butler County General Health District. **Orlowski, Paton, & Gladish (Co PIs)**, 9/5/2020-6/30/2021, $188,500.


Montgomery County ADAMH Services Board. FY21 Project Save Evaluation. **Kinzeler (PI); Paton (Lead Evaluator)**, 10/1/2020-9/30/2021, $35,000.


Ohio Department of Higher Education. Promoting Engagement for Safe Tapering of Opioids (PRESTO). **Crawford (Co PI)**, 7/1/2020-6/30/2021, $16,100.


SAMHSA (Substance Abuse & Mental Health Services Administration) (TI 081341). Day-TREE. Ford (PI), 9/30/2018 – 9/29/2021, $531,966.

SAMHSA (Substance Abuse & Mental Health Services Administration) (TI080919). Offender Reentry Program. Ford (PI), 1/15/2020 - 1/14/2022, $424,152.


Papers published


**Books, chapters, reviews**


Published abstracts


Significant presentations


Milligan, K., & Silverstein, S. M. (2021, March). There’s not one time that I have drove by this without thinking of everything I’ve done here: Using participatory photography to visualize how place and space impact opioid addiction and recovery. Royal Anthropological Institute Film Festival and Conference.


Osborn, A., & Silverstein, S. M., & Daniulaityte, R. (2021, March). Doing the drugs is the easy part but it’s working on yourself that is hard: Mental health barriers and motivators to recovery in individuals with opioid use disorder. Society for Applied Anthropology Annual Meeting.


Other Recognition

Editorial Review Boards
S. Paton – Ohio Journal of Public Health
T. N. Crawford – Journal of the American Board of Family Medicine

Journal Manuscript Reviews
Care, *Journal of the American Board of Family Medicine*, Medical Education Online, PLOS One, and Substance Use and Misuse.

A. Hinson-Enslin – Reviewed manuscripts for *SSM Population Health*, *Journal of Medical Internet Research*, and *Disability and Health Journal*

J. McAlearney – Reviewed manuscripts for *Journal of Health Care for the Poor and Underserved*

R. W. Nahhas – Reviewed manuscripts for *Journal of Clinical Medicine* and *Rural & Remote Health*

S. Paton – Reviewed manuscripts for *Ohio Journal of Public Health*


J. F. Wilson – Reviewed manuscripts for *Journal of Gambling Studies*

**Conference Abstract Reviews**

A. Hinson-Enslin – American Public Health Association’s Annual Meeting

R. W. Nahhas – American Public Health Association’s Annual Meeting

**Grant Reviews**

S. Silverstein – Reviewed grant application for Dirección General de Investigación y Vinculación (DGIV) de la Universidad de las Américas - Ecuador

J. F. Wilson – Reviewed grant applications for National Institutes of Health (NIH) National Institute on Drug Abuse (NIDA), Special Emphasis Panel/Scientific Review Group

**Promotion Reviews**

N. Khalil – Brody School of Medicine, Department of Public Health, East Carolina University, external reviewer for Promotion to Professor

**Textbook Chapter Reviews**

R. W. Nahhas – Jones and Bartlett Learning

**Book Reviews**

C. Redko – *Indirect Work* by Carol Sanford

### Summary of Service Activities

#### M.P.H. Courses – Community Service Projects

The M.P.H. program has two courses designed to provide practical public health experience via service-based learning to M.P.H. students.

Students in PPH 7410 Community Assessment worked as a team to complete a project for a community agency identified needing a health assessment. The instructor provided the guidance and didactic content necessary to complete the assessment and the community agency provided frequent input. Students are required to have both quantitative and qualitative components in the assessment
and to make recommendations based on their findings. In 2020, classes conducted a pediatric injury assessment for Dayton Children’s Hospital and a men’s health assessment for Public Health - Dayton & Montgomery County.

Students in PPH 7440/7920 Public Health Project Management course created and presented a program plan for Re-Imagining America: Dayton, Ohio who needed a program plan for assessing the need and acceptance of well-care in Miami County, Ohio. The instructor provided content and learning activities associated with program plan development. The program plan consisted of a work balance structure, Gantt chart, staffing plan, two job descriptions, SWOT analysis, risk analysis, risk matrix, and recommendations for implementation.

M.P.H. Graduates - Student Integrative Learning Experience (Capstone) Projects

Summer 2020
Research Capstone Project
Dante McDonald - Best Practices for Training Health Professionals on Becoming Culturally Competent about African Americans (Chair – Timothy Crawford; Reader – Cristina Redko)

Fall 2020
Research Capstone Project
Jessica Shroyer - Evaluation of Information Sharing Related to an Emergency Preparedness Functional Exercise (Chair – Sara Paton; Reader – Nicole Kinzeler)

Course Capstone Project – Global Health
Hyder Al-Janabi - How STIs Ranked High in Sub-Saharan African Countries (Chair – Cristina Redko)

Spring 2021
Independent Capstone Projects
Kyle Henneke - Ohio Clinical and Systems Level Factors that Influence Prehospital Triage (Co-Chair – Timothy Crawford)
Kelly Hinkle - Depression, Anxiety, and Mental Health Outcomes in Preterm and Low Birth Weight Children (Chair – Amanda Hinson-Enslin)

Course Capstone Projects – Applied Epidemiology: Chronic Diseases
Leah Elliott – A Retrospective Cross-Sectional Analysis Examining the Association of Oral Contraceptive Use in Females and the Risk of Developing Arthritis by Race and Ethnicity (Co-Chairs – Timothy Crawford & Naila Khalil)
Caleb James – A Review of Coronary Artery Disease Risk Stratification in US Military Aviators (Chair – Timothy Crawford)
Jeffrey Kinard – A Cross-Sectional Analysis of the Relationship between Current E-cigarette Usage and a History of Asthma in U.S. Adolescents from 2017 to 2019 (Chair – Timothy Crawford)

Committee Membership

Department of Population & Public Health Sciences
Curriculum Committee: Crawford, Gladish, Hinson-Enslin, Jarnot, Khalil, Kinzeler, McAlearney (Chair), Nahhas, Orlowski, Paton, Redko
M.P.H. Admissions Committee: Khalil, McAlearney, Orlowski, Paton (Chair), Redko
M.P.H. Awards & Recognition Committee: McAlearney, Orlowski (Chair), Paton, Redko
M.P.H. Evaluation Committee: Crawford, Khalil, Kinzeler, McAlearney, Orlowski, Paton, Redko
M.P.H. Scholarship Committee: McAlearney (Chair), Orlowski, Paton
Promotions & Continuances Committee: Nahhas (Chair), Orlowski, Paton, Wilson

**Boonshoft School of Medicine School of Medicine**
Continuing Medical Education Committee: Paton
Executive Committee: Orlowski
Faculty and Promotions Committee: Nahhas
Faculty Curriculum Committee: Orlowski
Research Committee: Crawford
Upstream Medicine Steering Committee: McAlearney

**Wright State University**
Faculty Senate and Faculty Senate Executive Committee: Orlowski
Woods Committee: Khalil
Equity Inclusion & Diversity Committee: Redko
Graduate Academic Policies Committee: McAlearney
Graduate Student Affairs Committee: Crawford
Information Technology Committee: Redko
Intercultural Specialist for the Latin & Hispanic Center Search Committee: Redko
Library Faculty Advisory Board: Hinson-Enslin
Undergraduate Curriculum Committee: Gladish
Undergraduate Academics Policy Committee: Hinson-Enslin
Women in Science Giving Circle, Grant Reviewer: Khalil

**Hospital or Affiliated Institution**
Dayton Children’s Community Advisory Board for Center for Community Health & Advocacy: Orlowski

**State/Local**
ADAMHS, Project Save Advisory Board: Kinzeler, Paton (Evaluator)
Consortium of Universities for Global Health, Educational Products Subcomm.: Redko (Co-Chair)
Greene Country Prevention Coalition: Ford
Harm Reduction Ohio: Silverstein
Just a Pair of Shoes, Secretary: Ford
Medical Reserve Corp., Miami and Montgomery counties: Paton
Midwest Sexual and Gender Minority (SGM) Health Research Consortium: Crawford
MonDay Community Correctional Institution Provider Board: Ford
Montgomery County Collective Opioid Action Team, Steering Committee and Data Committee: Paton
Montgomery County Community Health Improvement Plan, Steering Committee: Paton
Mount Olive Baptist Church Motivate, Educate, Link & Train (MELT) project, Advisory Board: Kinzeler
Ohio Alliance for Innovation in Public Health, Steering Committee: Paton
Ohio Collaborative to Prevent Infant Mortality: Paton
Ohio Department of Health, Certified HIV and Hepatitis C Tester: Kinzeler
Ohio Public Health Association, Ohio Public Health Resiliency Coalition for Climate Change: Khalil
Ohio Public Health Association, Epidemiology Section: Paton
Peer Movement Project, Advisory Board: Kinzeler
Public Health – Dayton & Montgomery County (PHDMC), Board of Health: Orlowski
PHDMC, COAT, Treatment & Harm Reduction and Criminal Justice Sub-committee: Silverstein
PHDMC LGBTQ Health Alliance - Mental Health, Addiction, & Violence Taskforce: Crawford (Co-chair)
United Way of Montgomery County: Paton

National/international
American Public Health Association
- Epidemiology Section: Nahhas, Paton
- PHEHP, Learning and Professional Development Committee: Hinson-Enslin
- Moderator for two sessions at 2020 annual meeting: Nahhas
ASPPH (Association of Schools and Programs of Public Health): 
- Academic Affairs: Orlowski
- Development & Alumni Relations: Orlowski
- Diversity: Crawford
- Practice Section and Primary Representative: Paton
- Scholarship of Teaching and Learning Task Force (SoTL): Khalil
CityMatCH, Institute for Equity in Birth Outcomes: Paton
Delta Omega, Gamma Alpha Chapter: Orlowski (Chapter President), Paton (Chapter Vice-President)
Global Consortium on Climate and Health Education (GCCHE), WSU BSOM Representative: Khalil
National Commission for Health Education Credentialing, Inc.: Orlowski
Society for Epidemiologic Research, Diversity and Inclusion and Membership Committees: Crawford
Society for Visual Anthropology, Board: Silverstein

Honors and awards

Faculty Honors/ Awards
- T. N. Crawford - Wright State University Presidential Award for Faculty Excellence, Early Career Achievement
- K. Dahms - Boonshoft School of Medicine Outstanding Voluntary Faculty Award
- S. Silverstein - Wright State University Women in Science Giving Circle Award

Graduate Student Honors/Awards
- John D. and Gretchen H. Bullock Endowed Public Health/Medicine Award – Taylor Yeates
- Graduate Student Excellence Award, M.P.H. Program – Leah Elliott
- M.P.H. Student Excellence Award, Capstone – Caleb James
Hosted events

M.P.H. – Virtual Open Houses. These events highlighted the WSU M.P.H. program to anyone exploring graduate degree options, at any stage in the application process. WSU M.P.H. alumni were invited to speak on emergency public health (Jul. 7, 2020); health promotion & education (Jul. 21, 2020; Mar. 16, 2021); epidemiology (Aug. 4, 2020; Jan. 19, 2021; Jun. 9 & 22, 2021), public health leadership (Feb. 16, 2021), and research (May 11 & 25, 2021).

M.P.H. – Virtual Course Capstone Presentations. These events highlighted the accomplishments of WSU M.P.H. students as they presented their final project in a virtual session. April 27, 2021 (Applied Epidemiology: Chronic Diseases).

M.P.H. – Virtual Capstone Poster Session. This event highlighted the accomplishments of WSU M.P.H. students as they presented their final project in a virtual session. April 29, 2021.

M.P.H. – Virtual Graduate Recognition Ceremony. This event highlighted graduates of the WSU M.P.H. program from Fall 2020, Spring 2021, and Summer 2021. M.P.H. faculty, staff, graduates, along with their families, friends, and pets participated virtually. April 29, 2021.

Other information

- S. Silverstein - Faculty mentor to Dr. Morgan Alexander, winner of the DAGMEC Spring Research Grant
- S. Silverstein - Faculty mentor to Josef Rivera, awardee of the BSOM Medical Student Summer Research Stipend
- S. Silverstein - 2020-2021 Drug Policy Alliance Drug Research Incubator Fellow