

# 2005 Intensive Summer Institute

## Quantitative Methods in Research

2103 Cornell Road  
Cleveland, Ohio 44106  
August 4-7

The 2005 Substance Abuse and Mental Health Services Administration's (SAMHSA) Minority Fellowship Program (MFP) 2005 Intensive Summer Institute, "*Quantitative Methods in Research*," will convene on August 4-7 at Case Western Reserve University. For these four days, MFP Fellows and Alumni will be focusing on strengthening and expanding their research knowledge and skills in quantitative research methods and analyses. Their development of an outstanding body of knowledge in quantitative research methods will be conceptualized within the context of a career in research and practice in substance abuse and mental health disorders and prevention.

### **OBJECTIVES OF THE SUMMER INSTITUTE**

At the end of this Summer Institute, the Fellows and Alumni will be able to:

1. Articulate the SAMHSA mission's principles and priorities within the context of prevention, treatment, and mental health services. Specific content about the Center for Substance Abuse Prevention, the Center for Substance Abuse Treatment, and the Center for Mental Health Services will be highlighted throughout the Institute.
2. Develop and strengthen knowledge in the conceptual and practical understanding of statistical methods as applied to science and service in substance abuse and mental health disorders across the lifespan.
3. Acquire additional proficiencies in reading and interpreting research finding, and applying the findings to outcomes and evidence-based practice.
4. Develop a broad-based understanding of the use and application of correlation and multiple regression analysis, logistic regression, general linear model, path

analysis and causal modeling, factor analysis and other advanced multivariate methods.

## **FACULTY**

Three SAMHSA administrators will be present for part of the 2005 Intensive Summer Institute. They are Tom Edwards, Dr. Wil Hardy, and Joyce Weddington.

**Tom Edwards, MS, Branch Chief** for the Systems Improvement Branch of the Center for Substance Abuse Treatment, SAMHSA, Department of Health and Human Services (DHHS). Mr. Edwards has more than 30 years of experience in the field of Substance Abuse and Mental Health Treatment. He has been employed at Yale University, and he was a member of the research team that studied depression among patients receiving methadone treatment. Mr. Edwards has taught in colleges and universities, and he has directed state- and nation-wide programs in substance abuse treatment.

**Wil Hardy, PhD, Senior Public Health Advisor**, Center for Substance Abuse Prevention (CSAP), at SAMHSA. He has 29 years of experience in public health programs, including mental health and substance abuse prevention and treatment. His most recent work includes serving as project manager for the development of prevention measures for SAMHSA's National Outcome Measures. He has functioned as the project manager for transition from the Substance Abuse Prevention and Treatment Block Grant to the Performance Partnership Grant (PPG). He also developed a logic model for the delivery of culturally competent prevention services and is considered the Center's expert in cultural competence and prevention service delivery.

**Joyce Weddington, MPA, CPP**, has worked in the field of public health and addictions for over 25 years. The scope of her work includes prevention, treatment and law enforcement. Her career has included the management of a family counseling center; serving as the drug czar for Howard County, Maryland; developing curricula; and teaching persons interested in state addiction certification. She participates in a weekly local television program that addresses alcohol, tobacco, and other substances. Currently, she is the Senior Public Health Analyst in the DHHS, SAMHSA, and the Center for Substance Abuse Prevention, where she is responsible for coordinating the Center's work on health disparities and other important areas. She also supervises undergraduate and graduate students who are developing expertise in substance abuse prevention.

**Faye A. Gary, EdD, RN, FAAN** is the Medical Mutual of Ohio Professor of Nursing for Vulnerable and At-Risk Persons at Case Western Reserve University. She serves on various national and international boards and committees, including the National Advisory Council of the National Institute of Mental Health, National Institutes of Health. Dr. Gary is a specialist in child and family psychiatric nursing. She has published extensively in the areas of Attention Deficit and Hyperactivity Disorders, violence in intimate relationships, cultural competence, and community mental health. Professionals

from across the global community have sought her expertise in mental health disorders research and practice.

*Hossein N. Yarandi, PhD*, is a professor at Wayne State University. He has extensive experience in interdisciplinary research and teaching. For more than two decades, he has taught statistics, economics, biostatistics, and program evaluation in the colleges of medicine, nursing, and pharmacy at the University of Florida, Gainesville. His teaching and consultation extends across several continents, and he has worked with lay and professional learners. Dr. Yarandi publishes in a variety of research and clinical journals.

The group facilitators/conveners are recent graduates of the MFP and are post-doctoral fellows or faculty members at prestigious universities across the United States. They are listed alphabetically.

Huey Jen Chen, PhD, RN, '04, Assistant Professor, Mental Health Institute, University of South Florida, Tampa

Jan Collins-McNeil, PhD, RN, '05, Post Doctoral Fellow, Duke University Durham, NC

Doris Hill, PhD, RN, '05, Post Doctoral Fellow, School of Medicine, University of Minnesota, Duluth

Dorothy Hawthorne, PhD, RN, '99, Assistant Professor, School of Nursing, University of Pittsburgh

Ezra C. Holston, PhD, RN, '03, Assistant Professor, School of Nursing, University of California, Los Angeles

Tom Rodriguez, DNS, RN, '04, Assistant Professor, School of Nursing, Texas Women's University

Patti Urso, PhD, RN, '03, Assistant Professor, School of Nursing, University of Hawaii at Hilo

## **Methods**

- Lectures
- Small Work Groups
- Individual Reflections
- Homework Assignments
- Open Group Discussions
- Power Point Presentations
- Informal Discussions

## **Required Equipment and Computer Programs**

- Laptop computer
- SPSS Versions 12, 13
- Microsoft Word, Version 2002 or above
- SAS, optional

## **Attire**

Comfortable clothing and shoes are recommended. The workdays will be extensive and intensive. Please be alert to this information as you plan your travel wardrobe for the 2005 Intensive Summer Institute.

## **Food, Refreshments, and Breaks**

Breakfast, lunch, and dinner will be provided by the Institute and are official “working sessions.” Refreshments will be available during all sessions. Fifteen-minute breaks are scheduled to occur every two hours for the duration of the Institute. Other breaks will be determined by individual discretion.

## **Transportation**

The staff at the Intercontinental Hotel will provide transportation from the airport to the Hotel. Upon your arrival, please retrieve your luggage, remain in the baggage area, and look for a sign that reads, **“Welcome MFP Fellows.”** The sign will be noticeably displayed by the driver of the hotel van, who will assist you with your luggage and transport you to the Intercontinental Hotel. Moreover, during the Institute, the hotel van will offer transportation to and from CASE every morning and evening. The morning van will depart from the Intercontinental Hotel at 7:15 am. In the evenings, it will depart the Wolstein Research Building at 7:00pm. Finally, on Sunday morning, August 7, 2005, please bring your luggage with you to the morning session. The van will leave from the Wolstein Research Building at 3:00pm and transport all Institute participants to Hopkins International Airport in Cleveland.

Minority Fellowship Program  
**2005 Intensive Summer Institute**

Case Western Reserve University  
Cleveland, Ohio  
August 4-7

<b>2:30-3:30pm</b>	Greetings and Remarks Introduction of SAMHSA Administrators Presentation of New Fellows Acknowledgement of SAMHSA Fellows Overview of the 2005 Intensive Summer Institute
<b>3:30-4:30</b>	Mr. Tom Edwards, Branch Chief of the System Improvement Branch of the Center for Substance Abuse Treatment (CSAT) An Overview of CSAT and Implications for Research and Practice
<b>5:00-5:15</b>	Break
<b>5:15-6:30</b>	Negotiations for Careers in Research Dr. Doris Hill (Post-doctoral Fellowship Negotiation) Dr. Ezra C. Holston (Faculty Negotiation) Questions and Answers
<b>7:30-9:30</b>	Reception and Dinner, Intercontinental Hotel Informal Reflections on Career Development and Future Goals
<b>8:00-11:00</b>	Research Design Methods
<b>11:15-12:00</b>	Correlation and Multiple Regression Analyses
<b>12:00- 2:00 (Lunch)</b>	Dr. Wil Hardy and Ms. Joyce Weddington Center for Substance Abuse Prevention (CSAP) SAMHSA's Strategic Plan Cultural Competence in Proficient Prevention Service Delivery Prevention Certification
<b>2:15-6:00</b>	Correlation, Multiple Regression, and Logistic Regression
<b>6:00-7:00</b>	Small Group Discussion and Review of Lecture Material

<b>7:30-9:30</b>	Dinner at the Intercontinental Hotel Informal Reflections on Career Development and Future Goals
<b>9:30-10:30</b>	Individual Consultation
<b>8:00-12:00</b>	General Linear Modeling (ANOVA, MANOVA, ANCOVA, and MANCOVA)
<b>12:00-1:30 (Lunch)</b>	Small Group Discussion and Review of Lecture Material
<b>1:30-6:00</b>	Factor Analyses, Path Analyses, and Causal Modeling
<b>6:00-7:00</b>	Small Group Discussion and Review of Lecture Material
<b>7:30-9:30</b>	Dinner at the Intercontinental Hotel Informal Reflections on Career Development and Future Goals
<b>9:30-10:30</b>	Individual Consultation
<b>8:00-2:00</b>	Fellows' Presentations of Research/Dissertation (10 minutes for presentation + 7 minutes for feedback and Q&A)
<b>12:30-2:00 (Lunch)</b>	Presentations will continue through lunch (10 minutes for presentation + 7 minutes for feedback and Q&A)
<b>2:00-3:00</b>	Ceremony and Final Remarks
<b>3:00</b>	Bag Lunches and Transport to Cleveland International Airport