

Rolf D.W. Klemm

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PERSONAL STATEMENT

Rolf Klemm has >25 years of professional experience in international public health nutrition with expertise in the design, evaluation and management of nutrition interventions to improve maternal and child health, and translational research. Dr. Klemm offers a unique combination of nutrition research and large-scale nutrition program management skills stemming from his decade-long service as Country Director for Helen Keller International-Philippines, leadership role as Technical Director of USAID's flagship micronutrient program, and extensive research experience as principal and/or co-investigator for studies in Nepal (assessing the linkages between agriculture and nutrition), Bangladesh (maternal supplementation and child supplementary feeding studies), Philippines (fortification and complementary feeding behaviors), Zambia (biofortified maize trial) and the Democratic Republic of Congo (infant feeding behaviors).

RELEVANT EXPERIENCE

Johns Hopkins Bloomberg School of Public Health, Washington, DC, 2009-2011

Associate Scientist, Program in Human Nutrition, Department of International Health (2012-present).

Co-principle investigator for observational study in Nepal assessing linkage between agriculture and nutrition; co-investigator for studies in Zambia (biofortified maize efficacy trial), Bangladesh (maternal supplementation and supplemental complementary feeding trials), Democratic Republic of Congo (program evaluation of multiple nutrition and agricultural interventions). Serves as advisor to masters students, principal instructor of Food and Nutrition Policy course, and lecturer in International Nutrition, Food/Nutrition and Livelihood in Humanitarian Emergencies, Health Policy and Management and other courses.

Technical Director (2009-2011), A2Z: The USAID Micronutrient and Child Blindness Project, AED. Provide technical leadership and guidance to A2Z's global and country activities on vitamin A supplementation, maternal anemia and child anemia; serve as key advisor on micronutrient technical issues with USAID, other collaborating organizations; provide oversight for monitoring and evaluation, applied research, translating the latest scientific information and technical state-of-the-art and approaches to work plans and country programs; provide support to the M&E unit in the development, implementation, analysis, and reporting of surveys proposed in A2Z core countries where impacts of project supported programs will be evaluated (especially India, Cambodia and Uganda).

Senior Technical Advisor (2008-09), A2Z: The USAID Micronutrient and Child Blindness Project. Provide technical direction to Micronutrient Forum planning; provide lead technical support to operations research activities in Bangladesh and Nepal for newborn vitamin A supplementation; provide technical guidance for the A2Z monitoring and evaluation unit with respect to development, design, implementation, analysis and reporting of A2Z-supported micronutrient surveys and impact evaluations.

Assistant Scientist. Program in Human Nutrition, Department of International Health (2002-2012).

Principal investigator for a large newborn infant dosing study in Bangladesh; co-investigator for large maternal supplementation trial in Bangladesh; co-investigator for a severe anemia treatment trial in Pakistan; instructor for Food and Nutrition Policy course; advisor for Masters students.

Research Associate. Program in Human Nutrition, Department of International Health (1998-2002)

Co-managed a micronutrient research cooperative agreement; Co-investigator for a large maternal vitamin A and beta-carotene supplementation study in Bangladesh.

Helen Keller International, Manila, Philippines.

Country Director (Philippines (1988-94, 1996-98)). Provided executive management and technical direction to the HKI's health and nutrition program; represented HKI at international and national scientific and technical symposia; served as senior nutrition adviser to the Department of Health (DOH) in micronutrient policies and programs; served as principal and co-principal investigator on numerous applied research and program evaluation studies; designed and managed operations research studies in early child malnutrition interventions, micronutrient coverage surveys, qualitative assessments on local government capabilities; served as Chair of the Council for International Voluntary Agencies in the Philippines (1996); spearheaded the country's first national symposium on community-based micronutrient interventions among the local NGOs; catalyzed the formation of the country's first NGO coalition for nutrition (KAIN).

Child Survival Program Manager (Philippines) (1986-88). Designed and oversaw implementation of a joint HKI-DOH pilot project on integrating vitamin A supplementation and nutrition education into DOH health services. Co-designed and co-managed an evaluation study of the pilot project. This project served as a basis for the DOH's national vitamin A supplementation policy.

Institute for Resource Development, Columbia, Maryland

Public Health Specialist (1984-86). Provided technical back-stopping for multi-million dollar USAID public health projects in Egypt (strengthening urban and rural health delivery systems); managed the development of proposals for competitive bids on a global immunization project and a maternal and child health project in Swaziland

International Catholic Migration Commission, Morong, Bataan, Philippines

Instructional Supervisor (1982-84). Supervised a 15-member team of adult educators working with literate and non-literate Indochinese refugees; designed and conducted training workshops on needs assessment, participatory learning methods, competency-based curriculum development; evaluated performance of adult educators.

US Peace Corps, Claveria, Cagayan, Philippines

Nutrition Promoter (1979-81). Assisted local rural health unit staff and local nutrition committee to target, monitor and strengthen village-based nutrition programs. Designed village-based nutrition education sessions; trained rural health midwives and village health volunteers in participatory learning methods; developed educational materials in the local dialect.

EDUCATION

Johns Hopkins University. Bloomberg School of Public Health. 2003

DrPH, Human Nutrition.

Delta Omega Honorary Society of the Johns Hopkins School of Hygiene and Public Health.

Department of International Health Tuition Award.

Johns Hopkins University. Bloomberg School of Public Health. 1985

MPH, International Health/Nutrition

Colgate University. 1979. BA, Biology (Cum Laude)

PROFESSIONAL ACTIVITIES

Member, Micronutrient Forum Steering Committee, Oct 2009

Member, Micronutrient Forum Program Committee, Oct 2008, 2009

Member, American Society of Nutrition (ASN), Society for International Nutrition Research (SINR); Global Health Council

Team Leader, USAID Zinc Assessment Team, Tanzania, March, 2005

Member, American Society for Nutritional Sciences, 2003-present

Member, Society for International Nutritional Research, 2003-present

Rapporteur of XVIV International Vitamin A Consultative Group Meeting, Durban, South Africa, 7-11 March 1999.

Rapporteur of XVIII International Vitamin A Consultative Group Meeting, Cairo, 22-26 September, 1997.

Chairperson, International Council of Voluntary Agencies in the Philippines (CIVAP), 1996-98.

Member, Philippines National Vitamin A Experts Group, 1996-1998.

Member, National Micronutrient Day Steering Committee, Philippines, 1993-94; 1996-98.

Member, Inter-agency Food Fortification Committee, Philippines, 1996-98.

CONSULTATIONS

Consultant, Helen Keller International, November 2011-February 2012. Global review of vitamin A supplementation programs.

Consultant, World Food Program, Egypt, November 2010. Reviewed nutritional interventions proposed for new Country Program, examined feasibility of scaling up micronutrient supplementation and fortification initiatives; recommended indicators of impact monitoring and evaluation of WFP programs.

Consultant, World Food Program, Egypt, July 2009. Reviewed baseline dietary assessment survey, drafted protocol of school children assessment, reviewed premix formulations.

Consultant, World Food Program, Egypt, February 2008. Provided technical and implementation recommendations to WFP and GoE to help control vitamin A deficiency in Egypt.

Team Leader, JHSPH and USAID's MOST Project, Tanzania, March 2005. Explored feasibility and strategies to introduce zinc treatment for diarrhea in Tanzania.

Consultant, USAID A2Z Project, Bangladesh and Nepal, December 2007, Newborn Vitamin A Supplementation.

Consultant, USAID MOST Project, Zambia, April 1999. Strategic Planning for Zambia's Vitamin A Deficiency and Anemia Prevention and Control Program.

Team Leader. OMNI Project, Philippines, 1995. Led assessment team to the Philippines to assess the country's micronutrient supplementation, fortification and dietary diversification programs and policies.

Principal Investigator. Christian Children's Fund (CCF), Philippines, 1997-98. Designed and conducted nutritional assessment of 6 CCF project areas.

Consultant. Urban Health and Nutrition Project, Department of Health, Philippines. 1998. Designed and managed training of health workers in early childhood growth interventions.

EDITORIAL ACTIVITIES

Reviewer, American Journal of Clinical Nutrition, Journal of Nutrition, Journal of Health, Population and Nutrition, Food Policy, American Journal of Public Health, Public Health Nutrition, Biomed Central, Food and Nutrition Bulletin, Netherlands Foundation for the Advancement of Tropical Research, Global Health Council
Correspondent, Sight and Life Newsletter

HONORS AND AWARDS

2008	Distinguished Alumni Award, Hauppauge High School
1994	Dept of International Health Tuition Award, Johns Hopkins University
1985	Delta Omega Public Health Honor Society
1976-79	Colgate Alumni Scholarship
1976-79	Wilson Scholarship
1976-79	Cobb Fellowship

LANGUAGES

English (mother tongue), Ilocano (Fluent); Tagalog (Fluent); German (Fluent); Bangla (beginner)

PUBLICATIONS

1. Sundaram M, Labrique AB, Mehra S, Ali H, Shamim AA, **Klemm RDW**, West KP Jr, Christian P: Early newborn feeding is common and associated with breastfeeding behavior in rural Bangladesh. *J Nutr* 2013;143(7):1161-1167.
2. **Klemm RD**, Merrill RD, Wu L, Shamim AA, Ali H, Labrique A, Christian P, West KP Jr. Low-birthweight rates higher among Bangladeshi neonates measured during active birth surveillance compared to national survey data. *Matern Child Nutr*. 2013 May 6
3. Nyhus Dhillon C, Subramaniam H, Mulokozi G, Rangeloson Z, **Klemm R**. Overestimation of vitamin a supplementation coverage from district tally sheets demonstrates importance of population-based surveys for program improvement: lessons from Tanzania. *PLoS One*. 2013;8(3):e58629.
4. Kim JM, Labrique A, West KP, Rashid M, Shamim AA, Ali H, Ullah B, Wu L, Massie A, Mehra S, **Klemm R**, Christian P. Maternal morbidity in early pregnancy in rural northern Bangladesh. *Int J Gynaecol Obstet*. 2012 Dec;119(3):227-33
5. Christian P, **Klemm R**, Shamim AA, Ali H, Rashid M, Shaikh S, Wu L, Mehra S, Labrique A, Katz J, West KP Jr Vitamin A and beta-carotene supplementation effects on birth size and length of gestation in rural Bangladesh: A cluster-randomized trial, *Am J Clin Nutr*. 2013 Jan;97(1):188-94
6. Coles CL, Labrique A, Saha SK, Ali H, Al-Emran H, Rashid M, Christian P, West KP Jr, **Klemm R**. Newborn Vitamin A Supplementation Does Not Affect Nasopharyngeal Carriage of *Streptococcus pneumoniae* in Bangladeshi Infants at Age 3 Months. *J Nutr* 2011 141:1907-11.
7. West KP Jr, Christian P, Labrique AB, Rashid M, Shamim AA, **Klemm RD**, Massie AB, Mehra S, Schulze KJ, Ali H, Ullah B, Wu LS, Katz J, Banu H, Akhter HH, Sommer A. Effects of vitamin A or beta carotene supplementation on pregnancy-related mortality and infant mortality in rural Bangladesh: a cluster randomized trial. *JAMA* 2011 18 305:1986-95
8. Labrique AB, Christian P, **Klemm RD**, Rashid M, Shamim AA, Massie A, Schulze K, Hackman A, West KP Jr. A cluster-randomized, placebo-controlled, maternal vitamin A or beta-carotene supplementation trial in Bangladesh: design and methods. *Trials* 2011 21;12:102.
9. Sugimoto JD, Labrique AB, Ahmad S, Rashid M, Shamim AA, Ullah B, **Klemm RD**, Christian P, West KP Jr. Epidemiology of tornado destruction in rural northern Bangladesh: risk factors for death and injury. *Disasters* 2011 35:329-45.

10. Steinglass R, Cherian T, Vandelaer J, **Klemm RD**, Sequeira J. Development and use of the Lives Saved Tool (LiST): a model to estimate the impact of scaling up proven interventions on maternal, neonatal and child mortality. *Int J Epidemiol* 2011 40:519-20.
11. Gunnsteinsson S, Labrique AB, West KP Jr, Christian M, Shamim AA, Rashid M, Katz J, **Klemm RDW**. Constructing Indices of rural Living Standards in Northwestern Bangladesh, *J Health Popul Nutr* 2010 28:509-19
12. **Klemm RDW**, West KP Jr., Palmer AC, Johnson Q, Randall P, Ranum P, Northrop-Clewes C. Vitamin A Fortification of Wheat Flour—Considerations and Current Recommendations. *Food and Nutrition Bulletin Supplement*, 2010, 31: S47-S61
13. Rah JH, Shamim AA, Arju UT, Labrique AB, **Klemm RD**, Rashid M, Christian P. Difference in ponderal growth and body composition among pregnant vs. never-pregnant adolescents varies by birth outcomes. *Maternal and Child Nutrition*. 2010, 6:27–37
14. Christian P, Shahid F, Rizvi A, **Klemm RDW**, Bhutta Z. Treatment effectiveness of iron-folic acid for curing severe anemia and efficacy of additional regimens of multivitamins and anthelmintics in enhancing cure among pregnant women in Karachi, Pakistan, *AJCN* 2009, 89:853-61
15. Bhutta Z., **Klemm RDW**, Shahid F, Rizvi A, Rah JH, Christian P. Treatment response to iron and folic acid alone is the same as with multivitamins and/or anthelmintics in severely anemic 6-24 mo old children. *J Nutr* 2009 139:1568-74.
16. **Klemm RDW**, Labrique AB, Christian P, Rashid M, Shamim AA, Katz J, Sommer A, West KP Jr: Newborn vitamin A supplementation reduced infant mortality in rural Bangladesh. *Pediatrics* 2008; 122:e242-e250.
17. Sugimoto JD, Labrique AB, Ahmad S, Rashid MS, **Klemm RDW**, Christian P, West KP Jr. Developing a Geographic Information System for Health Research in a Developing Country Setting: A Case-Study from Bangladesh. *Journal of Health, Population and Nutrition* 2007 24:1-12.
18. Solon FS, **Klemm RD**, Sanchez L, Darnton-Hill I, Craft NE, Christian P, West KP Jr. *Efficacy of a vitamin A-fortified wheat-flour bun on the vitamin A status of Filipino schoolchildren*. *Am J Clin Nutr*. 2000; 72:738-44.

BOOK CHAPTERS OR MONOGRAPHS

1. Shrestha S, Manohar S, **Klemm R**. Proceedings-Agriculture, Food Security and Nutrition in Nepal-Taking Stock and Defining Priorities. NCRSP. March 2012.
2. **Klemm RDW**, "Supplementation: Programmatic Issues", in *Encyclopedia of Human Nutrition*, Third Edition, Editor-in-Chief: Benjamin Caballero; Editors: Lindsay Allen and Andrew Prentice; Elsevier Publishers, 2012.
3. **Klemm R**, Sommerfelt AE, Boyo A, Barba C, Kotecha P, Steffen M, and Franklin N. Are We Making Progress on Reducing Anemia in Women? Cross-country Comparison of Anemia Prevalence, Reach and Use of Antenatal Care and Anemia Reduction Interventions. *AED*, March 2011.
4. **Klemm RDW**, Harvey P, Wainwright E, Faillace S, Wasantwisut E. Scaling up micronutrient programs: What works and what needs more work? The 2008 Innocenti Process. August 2009, Micronutrient Forum, Washington, D.C.
5. **Klemm RDW**, "Supplementation: Role of Micronutrient Supplementation", in *Encyclopedia of Human Nutrition*, First Edition, Editor-in-Chief: Benjamin Caballero; Editors: Lindsay Allen and Andrew Prentice; Elsevier Publishers, 2005, 220-7.
6. **Klemm RDW**, Ross DA, Vitamin A and Other Micronutrients: Biologic Interactions and Integrated Interventions, Report of the XIX International Vitamin A Consultative Group Meeting, Durban, South Africa, 8-11 March, 1999, ILSI Research Foundation, Washington, DC, 1999.
7. Solon FS, **Klemm RDW**, Sanchez L, Darnton-Hill I, Craft NE, Christian P, West KP. Vitamin A-fortified Pandesal Efficacy Trial: Philippines, Final Report to USAID. 1998.
8. Stoltzfus R, **Klemm RDW**. Sustainable Control of Vitamin A Deficiency: Defining Progress through Assessment, Surveillance, Evaluation. Report of the XVIII International Vitamin A Consultative Group Meeting. Cairo, Egypt, 22-26 September, 1997. ILSI. 1998.
9. **Klemm RDW**, Tuason-Lopez C, Villate E, Ungson B, Reario MF, Querol A, Sandrino C. Improving the nutritional status of women and children by strengthening the reach, accessibility and access to key

- micronutrient and child growth interventions: Child Survival X Project, Evaluation Study. Helen Keller International, Manila, 1998.
10. Tuason-Lopez C, **Klemm RDW**, Villate EE, Sandrino C, Reario MF, Querol A, Balajadia-Hughs MC. Community-based Monitoring System (CBMS) for Local Nutrition Planning: Description and field-test results. Helen Keller International and National Nutrition Council, Philippines. 1998.
 11. **Klemm RDW**, Villate EE, Tuason CS, Ignacio SM. Weight-for-Age Status, Infant Feeding Practices, and Participation in Nutrition Education. VITEX Baseline Survey Report. Helen Keller International, Manila. 1997.
 12. **Klemm RDW**, Ignacio SM, Villate EE, Puertollano E, Castaneda CQ. Infant Feeding Beliefs and Practices among Mothers and Caretakers in Quezon Province, Philippines. Helen Keller International, Manila. 1997.
 13. **Klemm RDW** Villate EE, Tuazon-Lopez CS, Ramos AC. Coverage and Impact of adding vitamin A capsule (VAC) distribution to annual National Immunization Day in the Philippines. Helen Keller International, Manila. 1997.
 14. **Klemm RDW**, Villate EE, Tuason-Lopez C, Puertollano EP, Triunfante J, del Rosario A, Dimaano MV. Integrating vitamin A capsule supplementation into child weighing: A monitoring Study on Philippine OPT plus. Helen Keller International, Manila, 1997.
 15. Ray P, **Klemm RDW**, Mata B, Matibag T. Sustainability: An Experiential Perspective: The synthesis of findings from three CIVAP Workshops. Council for International Voluntary Agencies in the Philippines, Manila, 1996.
 16. West KP, **Klemm RDW**. Avertable Deaths among Children Under 5 Years of Age with Vitamin A Interventions in 15 USAID Joint Programming (JP) Countries: 1995-2000. Report to USAID, 1995.
 17. **Klemm RDW**, Buescher R. Philippines Trip Report: March 18-29, 1995. OMNI. USAID, 1995.
 18. Talukder A, Islam N, **Klemm RDW**, Bloem M. Home Gardening in South Asia: The Complete Handbook. Helen Keller International, New York, 1993.
 19. Sethi A, **Klemm RDW**, Ignacio MS, Ramos AC. *A study of feeding practices, beliefs and motivations of mothers in Region VI, Philippines*. Helen Keller International, Manila. September 1992.

COMMENTARIS

1. West KP Jr, Christian P, Katz J, Labrique A, Klemm R, Sommer A. Effect of vitamin A supplementation on maternal survival. *Lancet*. 2010 11:873-4
2. West KP Jr, **Klemm RDW**, Sommer A. Vitamin A saves lives. Sound science, sound policy. *World Nutrition* 2010, 5: 211-229
3. West KP, Sommer A, Tielsch, Katz J, Christian P, **Klemm RDW**. A Central Question Not Answered: Can Newborn Vitamin A Reduce Infant Mortality in South Asia? *BMJ Rapid Response*. 2 April 2009.

ARTICLES AND EDITORIALS (non-peer reviewed)

1. **Klemm RDW**, Pokharel RK, Bichha RP, Nargis M, Mahmud Z, Oot L, Mehta P, Sharma J, Maharjan MR, Paudyal N, Sharma N, Rashid M. Testing the feasibility of delivering vitamin A to newborns in Nepal and Bangladesh. *Sight and Life*, 2011,25:30-37
2. **Klemm RDW**, Newborn Vitamin A Supplementation – Conflicting Results or Explanatory Contextual Factors? *Sight and Life Magazine*, 2010, 1:27-28.
3. West KP, Sommer A, Tielsch, Katz J, Christian P, **Klemm RDW**. A Central Question Not Answered: Can Newborn Vitamin A Reduce Infant Mortality in South Asia? *BMJ Rapid Response*. 2 April 2009.
4. Tielsh J, **Klemm RDW**, West KP Jr, Katz J, Humphrey J, Christian P, Sommer A. Newborn Vitamin A Dosing and Early Infant Survival-Current Evidence and Controversy. *Sight and Life Newsletter*, July 2008.
5. West KP,Jr, Christian P, Klemm RD, Labrique A, Rashid M, Shamim AA, et al. The JiVitA bangladesh project: Research to improve nutrition and health among mothers and infants in rural south asia. *Sight and Life Newsletter* 2006, 1:10-4.

6. **Klemm RDW.** *The Vitamin A Imperative.* Bulletin of the Nutrition Foundation of the Philippines, Vol. 33 No. 2, March-April 1993.

SELECTED PRESENTATIONS

1. **Klemm RDW.** Anemia Prevalence, Burden of Disease and Programmatic Considerations. Global Newborn Health Conference, Johannesburg, S Africa, April 2013
2. **Klemm RDW.** The impact of maternal nutrition on the newborn. Global Newborn Health Conference, Johannesburg, S Africa, April 2013
3. **Klemm RDW.** Looking back to look forward—Lessons from USAID investments in reducing micronutrient deficiencies. A2Z Micronutrient Cornerstone Symposium, June 2011.
4. **Klemm RDW.** Addressing Anemia Full-spectrum: Recent scientific findings, implementation issues & opportunities for integration. Core Group Fall Meeting 2011, Baltimore, MD. September 2011
5. **Klemm RDW.** Maternal and Child Anemia: Why, What works, what needs more work? Core Group Spring Meeting 2010, Baltimore, MD. May 2010.
6. **Klemm RDW.** Pooled Analysis of Asian Newborn Vitamin A Supplementation Trials to Assess Differential Effects on Early Infant Mortality. Abstract. Micronutrient Forum, Beijing, May 2009.
7. **Klemm RDW.** Research to Policy: Early Experiences in Moving Newborn Vitamin A Supplementation to National Policy in Bangladesh. Abstract. Micronutrient Forum, Beijing, May 2009.
8. **Klemm RDW.** Newborn Vitamin A Supplementation: A Promising New Intervention to Reduce Infant Mortality in Southern Asia Integrating Community-based Newborn Interventions into Existing Programs, Global Health Conference, Washington, DC. 30 May 2008.
9. **Klemm RDW,** Newborn Vitamin A Dosing- A Promising New Intervention to Reduce Infant Mortality in Southern Asia. Presented at the Scaling-Up High Impact FP/MNCH Best Practices: Newborn Micronutrients Session, September 6, 2007, Bangkok, Thailand.
10. **Klemm RDW,** Labrique AB, Christian P, Rashid M, Shamim AA, Katz J, Massie A, Wu L, Ullah MB, Sommer A, West KP Jr Efficacy of Newborn Vitamin A Supplementation in Reducing Infant Mortality in Rural Bangladesh: The JiVitA-2 Trial. Presented at the Micronutrient Forum, Istanbul, Turkey, April 2007.
11. **Klemm RDW,** Preventing Micronutrient Deficiencies in Developing Countries —Moving Forward, Canadian Pediatric Society, 83rd Annual Meeting, St. John's Canada
12. **Klemm RDW,** Christian P, Craft NE, Khattry SK, West KP Jr, Dried blood spot retinol correlates highly with retinol measured from serum in pregnant Nepalese women and detects a response to vitamin A supplementation, IVACG, Peru, 2004.
13. **Klemm RDW,** West KP Jr, Villate EV. Effectiveness of Two Nutrition Education Programs on Infant Feeding Behavior and Growth of Filipino Infants, FASEB, Washington DC, 2004.
14. **Klemm RDW.** *NGO-LGU Partnership for Nutrition.* Presented for the Pre-Nutrition Summit (“Sustansya Para sa Masa”), July 22, 1998, Century Park Hotel, Manila, Philippines
15. **Klemm RDW,** *Nutrition Education: Issues and Challenges.* Paper presented at 43rd Nutritionist-Dietitians Annual Conference, Baguio, Philippines, February, 1998.
16. **Klemm RDW.** Nutrition Education: Are We Fooling Ourselves? Paper presented at the “Sangkap Pinoy symposium: State of the Art in Community-based Micronutrient Nutrition Interventions”, March 3-4, 1994, PICC, Manila
17. **Klemm RDW,** Villate E, Puertallano E, Tuason C. Weaning Moments Education Program: A look at Community-based Education Processes. Paper presented at “Sangkap Pinoy symposium: State of the Art in Community-based Micronutrient Nutrition Interventions”, March 3-4, 1994, PICC, Manila

18. **Klemm RDW**, Villate E, Mendoza O. Integration of Vitamin A Supplementation and Nutrition Education into the Community Health Services: A Case Study of Impact and Processes. Paper presented at the XV IVACG meeting in Ecuador, 1991.
19. **Klemm RDW**, Villate E. Influencing Health Policies and Programs--A PVO Challenge: A Case Study of Helen Keller International's Efforts to Influence Vitamin A Programs and Policies in the Philippines. Paper presented at the NCIH Conference, Washington, D.C., 1989.

TEACHING

Principle Instructor, Food and Nutrition Policy, Dept of International Health

This course aims to familiarize and engage students in the steps and dynamics of policy making processes that address key domestic and international food and nutrition problems. Student interest in this subject appears to have grown considerably over the past 3-4 years judging from enrollment increases (from ~30 in 2005 to ~60 in 2009-11). The course is required for PhD students in the nutrition track, but has attracted a range of students in Epidemiology, Health Policy and Management, MPH-ers. The course consistently gets strong positive reviews based on student evaluations. **2005-present**

Session Presenter, Food and Nutrition in Human Emergencies, Nursing in Global Humanitarian Relief, School of Nursing, Johns Hopkins University, 2006-present. The food and nutrition session of this course is aimed at nurses and covers food and nutrition components relevant to humanitarian aid settings including common nutritional problems, assessment methods, interventions (eg general rations, supplemental feeding, therapeutic feeding, & micronutrient supplementation) and setting up basic nutritional support programs. The course has consistently received strong positive evaluations from students. **2006-present**

Lecturer, Maternal and Child Health Policies and Programs, Department of Health Policy and Management, **2011-**

Lecturer, Health Policy II, Department of Health Policy and Management, **2010 to present**

Lecturer, Critical Thinking in Human Nutrition, Dept of International Health, **2004-present**

Lecturer, Micronutrient Deficiencies, Winter and Summer Institutes, Johns Hopkins University, **2005-present**

Lecturer, Vitamin A Deficiency, Winter and Summer Institutes, Johns Hopkins University, **2005-present**

Lecturer, Micronutrient Deficiencies and Fortification, in Food, Nutrition and Livelihoods in Complex Emergencies Course, Dept of International Health, Johns Hopkins University, **2006-present**

Lecturer, Nutrition in Developing Countries-Special Topics in Nutrition, School of Medicine, Johns Hopkins University, **2004-2009**

Lecturer, Community Interaction in Research-An International Perspective, Research Coordinator's Training, School of Nursing, Johns Hopkins University. Lecture is given 4 times each year during the quarterly Research Coordinator Training Programs hosted by the School of Nursing. **2007-10**

Lecturer, Nutritional Assessment-Vitamin A Assessment, Dept of International Health, Johns Hopkins University, **2005-2006**

Lecturer, Epidemiology and Policy Aspects of Selected Childhood Diseases—Vitamin A, Dept of Epidemiology, **2005**

Lecturer, Food and Nutrition Policy, Micronutrient Fortification, Dept of International Health, Johns Hopkins University, **2002**

Lecturer, US Food and Nutrition Policies-Obesity Case Study, George Washington University, **Jan 2009**

Research Grant Participation

Title of Grant: Nutrition Collaborative Research Support Program-Nepal
Date: July 1, 2010 to June 30, 2011
Principle Investigator: Patrick Webb
Funding Level: \$1.2 million
Grant Objective: To conduct research to determine if, and what kinds of, investments in agriculture-and food-based strategies effectively achieve significant reductions in maternal and child undernutrition at scale.
Main Responsibilities: Co-Principle investigator

Title of Grant: Nutrition Collaborative Research Support Program-Subcontract
Date: October 4, 2010 to October 3, 2011
Principle Investigator: Patrick Webb
Funding Level: \$168,000
Grant Objective: To empower stakeholders to conduct and apply research, augment academic training and bolster technical capacity to improve income and nutrition outcomes for targeted population groups in Nepal and Uganda.
Main Responsibilities: Co-Principle investigator

Title of Grant: Evaluation of complementary food supplements for reducing childhood undernutrition, USDA Food Aid and Nutrition Enhancement Program
Date: Sept 30, 2010-March 31, 2014
Principle Investigator: Parul Christian
Funding Level: \$2.73m
Grant Objective: The main objective of the project will be to field test three specially formulated CSFs for their impact on nutritional status, safety, and acceptability in a rural, difficult, community in northwestern Bangladesh.

Main Responsibilities: Co-investigator

Title of Grant: Food Aid, PM2A and Nutrition in Democratic Republic of the Congo (DRC)

Date: July 2011-June 2016

Sponsoring Agency: USAID/Adventist Development Relief Organization

Principle Investigator: Shannon Doocey

Funding Level: \$999,329

Grant Objective: Conduct operations research on Prevention Malnutrition in Children Under 2 Approach (PM2Z) in DRC

Main Responsibilities: Co-Investigator

Title of Grant: Food Aid, PM2A and Nutrition in South Sudan

Date: July 2010-June 2012

Sponsoring Agency: USAID/Adventist Development Relief Organization

Principle Investigator: Shannon Doocey

Funding Level: \$266,359

Grant Objective: Conduct operations research on Prevention Malnutrition in Children Under 2 Approach (PM2Z) in South Sudan

Main Responsibilities: Co-Investigator

Title of Grant: A2Z Project: USAID Cooperative Agreement Number GHS-A-00-05-00012-00 Subagreement No. 3567 – JHU – 00

Date: Sep 2005-Sep 2011.

Sponsoring Agency: United States Agency for International Development

Principal Investigator: Project Director: Nadra Franklin (AED)

Funding Level: \$1.38 m

Grant Objective: The A2Z Project aims to consolidate, build on, and expand USAID's leadership in micronutrients, blindness prevention, and child survival and nutrition overall, by: taking proven interventions to scale; introducing innovations, particularly through engaging the private sector; expanding the number of countries served, and building sustainable programs.

Main Responsibilities: Technical Director

Title of Grant: Technology Transfer Seed Grant

Date: 2005

Sponsoring Agency: Johns Hopkins Bloomberg School of Public Health Technology Transfer Seed Grant Program

Principal Investigator: Alain B. Labrique

Funding Level: \$17,700.

Grant Objective: To improve and test a prototype portable field dark adaptometry (PDA) device.
Main Responsibility: Co-Investigator

Title of Grant: Protecting Children's and Women's Health Through Global Control of Micronutrient Deficiency
Date: 2000-2009
Sponsoring Agency: Bill and Melinda Gates Foundation
Principal Investigator: Alfred Sommer
Funding Level: \$10,000,000
Grant Objective: To effectively attack global death and disability that result from vitamin A and related micronutrient deficiencies.
Main Responsibility: Co-Investigator

Title of Grant: Global Research Activity (GRA)
Date: 2003-2008
Sponsoring Agency: USAID
Principal Investigator: Robert Black
Funding Level: \$37 million
Grant Objective: Design and conduct research to establish the scientific basis for feasible and potentially effective health and nutrition interventions; provide global leadership to advocate evidence-based health and nutrition policies; provide technical assistance to introduce, translate or help scale-up efficacious health and nutrition interventions in appropriate developing country settings.
Main Responsibility: Co-Investigator for JiVitA-1 (see below); Principal Investigator for JiVitA-2 (see below); Principal Investigator for Introduction of Zinc Treatment for Diarrhea in the Republic of Tanzania.

Title of Grant: Micronutrients for Health Cooperative Agreement
Date: 1999-2003
Sponsoring Agency: USAID
Principal Investigator: Keith P. West, Jr.
Funding Level: \$17 million
Grant Objective: Evaluate efficacy of weekly maternal vitamin A or beta-carotene supplementation on mortality related to pregnancy, maternal morbidity and infant mortality.
Main Responsibility: Co-Investigator on the JiVitA-1 Study
Principal Investigator on the JiVitA-2 Newborn Vitamin A Supplementation Trial

Title of Grant: Pakistan-Severe Anemia Treatment Trial,
Date: 2003-2006
Sponsoring Agency: Thrasher Research Fund

Principal Investigator: Parul Christian
 Funding Level: \$224,235
 Grant Objective: Evaluate efficacy of adding vitamin and deworming components to existing WHO iron+folic acid supplement recommendations for treating severe anemia in young children and pregnant women
 Main Responsibility: Co-Investigator

Title of Grant: Vitamin A-Fortified Pandesal (wheat-flour bun) Efficacy Trial
 Date: 1997-2000
 Sponsoring Agency: USAID
 Principal Investigator: Florentino Solon
 Funding Level: \$ 264,475
 Grant Objective: Evaluate the efficacy of vitamin A fortified pandesal (wheat flour bun) on improving the vitamin A status of school-aged children.
 Main Responsibility: Co-Investigator

Title of Grant: Philippines-Infant Feeding Education Evaluation
 Date: 1994-1998
 Sponsoring Agency: USAID
 Principal Investigator: Rolf Klemm
 Funding Level: \$ 250,000
 Grant Objective: Design and evaluate the effectiveness of nutrition education on infant feeding behaviors, and infant dietary intake and growth
 Main Responsibilities: Principal Investigator

ACADEMIC SERVICES

Department of International Health

Steering Committee: 2005-2008

Finance and Budget Advisory Committee: 2007-2009

DrPH Committee: 2007-present