

Children, Youth, and Families Consortium

Proposal for Level 2 Funding

Lead Investigator:

a) Jyotsna (Josi) M. Kalavar, Associate Professor of Human Development & Family Studies

Collaborating Investigators:

a) Gaylen Bradley, Visiting Professor of Biochemistry & Molecular Biology and of Pharmacology

b) Mala Chinoy, Professor of Surgery, Graduate Faculty of Genetics and Integrated Biosciences

c) Audrey Maretzki, Professor of Food Science & Nutrition

Title of Proposal:

Collaborative Research Leading to Integration of Indigenous Knowledge Related to the Well-Being of Families and Children in rural East Africa

2. Abstract:

An interdisciplinary team of Penn State faculty has come together to develop collaborative research integrating indigenous knowledge relating to health, agriculture and environment to address sustainable well-being of families and children in East Africa. Tanzania has been selected as the site for the initial collaborative research because there is a stable government, which has articulated its "Development Vision 2025," and Penn State faculty have already established dialog with a number of potential collaborators. This proposal seeks funding to enable selected Penn State faculty to travel to Arusha, Tanzania to solidify collaborative research projects. The timing of the proposed visits takes advantage of a proposed conference in Arusha Tanzania where many of the potential research collaborators will be present.

3. Specific Aims and Objectives:

Aims

1) To foster interdisciplinary research projects on child and maternal health issues that will integrate indigenous knowledge (IK) with existing disciplinary research

a) To enable an interdisciplinary team of Penn State researchers to visit Usa River Village in Tanzania so they may actively pursue research priorities involving indigenous knowledge that will be mutually beneficial to all participants. The focus of the visit will be to identify the holders of indigenous knowledge in the target community, understand the implications of the use of indigenous knowledge within the cultural context, and to examine areas within family health that will serve as the cornerstone of a project for external funding and research-based initiatives.

2) To positively influence family health in rural East Africa through a program of wellness and prevention research that is designed to strengthen indigenous practices with the judicious introduction of modern research-based technology

a) First, ascertain the wealth of culture-specific indigenous knowledge based family health practices that are currently employed in rural East Africa. Then, specifically examine what may be impediments to achieving the Millennium Development Goals relating to child and maternal health. Second, interdisciplinary collaborators will dialogue to determine if there is value to introducing modern health practices guided by research. Third, consolidating the information gathered by the multidisciplinary team to devise a program of wellness and prevention that is integrative of cultural and place-specific knowledge with modern research based practices. This would leverage global and local

knowledge to suit local conditions, in a process of continuous learning, empowering local communities to shape the development process through active participation.

3) To enhance the awareness levels about indigenous knowledge both within and outside Penn State University

a) Research initiatives undertaken will serve to advance Penn State's international reputation in the area of indigenous knowledge by building on the body of existing knowledge. Locally driven IK solutions to complex issues may provide for mutual learning and adaptation.

b) Within the University, we anticipate that faculty will introduce indigenous knowledge concepts into the classroom, and this will eventually find a place within academic discourse.

Through this proposal, we will seek external funding by providing a critical mass of key individuals at Penn State with an opportunity to gain a collective "sense of place" for a location in which they would work. A successful project will enhance the reputation of Penn State as an effective, flexible, innovative and collaborator that learns by sharing. At the same time, it would allow our faculty to become acquainted with individuals at the Ford and Rockefeller Foundation Regional Offices for East Africa that are located in Nairobi, Kenya, less than 4 hours by bus from Arusha.

4. Brief background, rationale, and description of methods:

The Inter-Institutional Consortium for Indigenous Knowledge (ICIK) has been in existence at Penn State since 1995 as a joint initiative of the Colleges of Education and Agricultural Sciences, co-directed by Ladislaus Semali, Associate Professor of Education and Audrey Maretzki, Professor of Food Science and Nutrition. ICIK is the only academic Indigenous Knowledge Resource Center in the US that is affiliated with a global network of ~35 IK Centers world-wide, many of which are in Sub-Saharan Africa. For the past decade, ICIK has served as a focus for PSU faculty and students with an interest in the interface between locally-generated knowledge and that generated by the academy.

In 2002, ICIK was the recipient of an Outreach Innovations Grant which culminated in an award-winning international conference, **Indigenous Knowledge: Transforming the Academy** which was attended by more than 100 persons from 17 countries. (see proceedings at www.ed.psu.edu/icik/). More than \$80,000 in external financial support was generated for this conference, primarily from the W.K. Kellogg Foundation, USDA/Agricultural Research Service and the National Science Foundation. A March 2006 visit to the University Park campus and the College of Medicine by Reinhard Woytek, Manager of the Indigenous Knowledge and Development Program at The World Bank provided the impetus for the establishment of an multidisciplinary Indigenous Knowledge and Development Working Group. This group of 18 persons met by phone and video during Spring semester to focus their collective attention on the creation of an opportunity to work collaboratively with a local community in East Africa. To this end, Mala Chinoy, Professor of Surgery at the College of Medicine, assumed leadership for the submission of an international workshop proposal to the National Science Foundation which would have enabled PSU faculty to be involved in an asset assessment of a rural Tanzanian community near Arusha . Unfortunately, the NSF proposal was not funded.

Our IK and Development Working Group has interacted extensively with Jane Childs in the PSU Foundations and Development Office who has helped us to identify foundations that support MDG-related initiatives, but has made it clear that these foundations will provide their funding to East African governments and/or non-governmental organizations who must be convinced that Penn State is an institution able and willing to help local communities. Penn State has many alumni who are well positioned in East Africa to assist in this initiative including Judi Wakhungu, Director of the Nairobi-based ACTS (African Center for Technology Studies) who was formerly Head of PSU's Women in Science and Engineering Institute and an active participant in ICIK before she returned to Kenya.

The Indigenous Knowledge and Development Working Group has now expanded to include nearly 40 individuals from three Commonwealth Campuses, a County Extension office and the Law School as well as University Park and the School of Medicine. At a recent retreat on October 28th the members recommitted themselves to the concept of applying the intellectual resources of Penn State to a long term engagement with the Usa River Village as a way of learning from this community the many lessons they can teach us about living in rural Sub-Saharan Africa in a era of globalization and how their traditional knowledge has allowed them to adapt to the change over many generations. In exchange, we could endeavor to share with them some concepts gleaned from Western science about health, agriculture and the environment that might enable them to achieve the Millennium Development Goals of improving child and maternal health.

The proposed visit by an interdisciplinary team of six to eight PSU representatives to Arusha, Tanzania may be timed to take advantage of a proposed two-day workshop on *Community-based Innovation for Village Level Capacity Building in Usa River Village* where many of the potential research collaborators will be present. Additionally, Ladislaus Semali who is on a one-year sabbatical leave at Tumaini University is in a strategic position to facilitate various site visits and meetings with potential collaborators.

5. Relevance to the CYFC:

By fostering collaboration among dozens of individuals working at locations across the Commonwealth, we strongly believe that the conceptualization of innovative interdisciplinary research will be an outcome of this proposed travel by a multidisciplinary team from Penn State. This fits in neatly with the CYFC mission. The proposed activity relates to the CYFC theme of “Rural Communities in an Urban Society.” This group will work to create an opportunity to focus their collective attention on the Usa River Village in East Africa where rural children, youth and families are adversely affected by the health, agricultural and environmental issues associated with rapid urbanization currently taking place in this rural area.

6. Indicate if SSRI services will be used (GIS, PRI, SRC):

We anticipate that an early draft of the proposal for external funding will be circulated with the SSRI core directors (Survey Research Center, Geographic Information Analysis, Population Research Institute) so we may utilize the expertise of each unit to enhance our proposal.

7. Anticipated Outcomes:

Specific outcomes of this proposal are anticipated in the areas of research, teaching and outreach.

Research:

We anticipate that a minimum of two interdisciplinary research proposals will be generated by those individuals who attend the Usa River Village workshop:

1. One will involve both senior and junior faculty from the Colleges of Medicine, Agricultural Sciences, Health and Human Development, Earth and Mineral Sciences, Education and Engineering who are interested in culturally sensitive approaches that will integrate indigenous knowledge with global practices to promote family health.
2. A second research proposal would involve faculty from the Colleges of Agricultural Sciences, Liberal Arts, Information Sciences and Technology, Law and Business and would address local perceptions of intra-household and gender issues relating to agricultural cooperatives, land use, micro-finance and the empowerment of women entrepreneurs.

Outreach:

We anticipate that at least one county-based Cooperative Extension Services (CES) agent with experience in Sub-Saharan Africa will be among those who attend the Usa River Village Workshop. Subsequently, this may lead to training sessions at CES inservices at PSU to enable both Extension specialists and

agents to appreciate the importance of participatory techniques as a way of building trust and mutual respect between the uniquely ethno-centric knowledge systems of local communities and academic institutions.

Teaching:

Graduate level. We anticipate that medical students from the College of Medicine (COM) will be encouraged to undertake voluntary service and applied research projects in Usa River Village in much the same way that they now take part in the Uganda Village Project which is also in East Africa. We also envision the involvement of graduate students in funded research projects initiated by faculty and the opportunity for PSU to recruit additional graduate students from the many research institutions in East Africa.

Undergraduate level. We are also aware that PSU's International Program Office encourages faculty-student travel to developing countries and this project should effectively set the stage for a number of faculty-student visits to East Africa as well as increasing the likelihood that PSU students may choose East African institutions as their study-abroad destination.

It is also our anticipation that the faculty who take part in the Usa River Village Workshop and subsequent activities in the region bring their East African experiences into their classrooms through examples of interdisciplinary initiatives.

8. External Funding Sources:

Investigators involved: Gaylen Bradley, Jyotsna M. Kalavar, Veronica Montecinos, Audrey N. Maretzki, and Mala R. Chinoy

Title of proposal: Facilitating interdisciplinary research via methodologic and technological innovation in the behavioral and social sciences.

Time frame of proposal: February 23, 2007 submission date, earliest activation date September 15, 2007.

External funding sources to be targeted: National Institutes of Health RFA-RM-07-004 (there are parallel programs at the National Science Foundation)

9. Timeline:

Ongoing

- Maintain exchanges between the ICIK working group via email, telephone, videoconference and personal meetings to harness Penn State resources effectively for the envisioned externally funded research proposals.

September 2006 to March 2007:

- Identification of research partnerships and projects with primary activities in Tanzania.
- Developing relations with potential private philanthropic and businesses entities, with foundations and with federal and international agencies.

November 2006 to February 2007

- On-site visits to Usa River Village in Tanzania to establish professional partnerships and research project priorities. This is the period that funds awarded by CYFC would be dispersed.

January to December 2007

Submission of proposals for funds to implement the research plans

July 2007 forward

Developing sustainable projects and key partnerships to maintain proposed health initiatives

10. Personnel:

Lead Investigator: Jyotsna M. Kalavar, PhD, Associate Professor of Human Development and Family Studies, will be the coordinator of this project. She will work closely with steering committee members including Drs. Audrey Maretzki, Gaylen Bradley, and Mala Chinoy. Additionally, Jane Childs (Associate Director for Foundation Relations, Corporate & Foundation Analyst) & Lisa Davis (Director, Pennsylvania Office of Rural Health) will be consulted by the steering committee. The steering committee will coordinate planning and goal setting, and select the investigators who have proposals for collaborative research. Dr. Kalavar was trained in gerontology and her research has focused on intergenerational relationships and the diverse experiences of aging. Specific research projects have examined the experiences of homebound seniors in rural communities, immigrant seniors, and institutional living in late life.

Collaborating Investigator: Audrey N. Maretzki, Professor of Food Science and Nutrition, has been the Co-Director of the Inter-Institutional Consortium for Indigenous Knowledge since it was founded in 1995. She has relied on the local knowledge of women farmers in rural Kenya and Namibia to create NutriBusiness cooperatives that enable women to process the crops they produce on their shambas into nutritious, culturally-acceptable, shelf-stable food products for infants, children and people with HIV/AIDS. The cooperatives market their value-added products in the area. Audrey Maretzki is serving as the liaison to Ladislaus Smali, Co-Director of the Inter-Institutional Consortium for Indigenous Knowledge, while he is on sabbatical leave at Tumaini University in Arusha, Tanzania until July 2007.

Collaborating Investigator: Mala Chinoy, PhD, MBA is a Professor of Surgery and teaches genetics as well as the Integrated Biosciences. She has interest in health and human development with the focus on child and maternal health, where she has made the contributions in the areas of education, research and community outreach. She is familiar with indigenous practices because of her cultural background and as a scientist she has a good grasp on the modern means of prevention and treatment modalities. She also leads the efforts on global partnerships and healthcare services at the Penn State College of Medicine.

Collaborating Investigator: Gaylen Bradley, PhD, Visiting Professor of Pharmacology and of Biochemistry and Molecular Biology at the College of Medicine, has an interest in the development of natural products for the treatment of disease. He wrote a chapter for a leading pharmacology textbook for medical students on the treatment of malaria, with included several folk medicines such as artemisinin. He and Mala Chinoy, PhD, MBA have organized periodic presentations on global health at the College of Medicine, including a recent presentation by Jane Roberts on Maternal/ Infant Health – A Global Perspective.

11. Budget and Justification:

Travel of participating faculty to Arusha Tanzania late 2006, first quarter 2007, ca. \$4,000 @ X 5 = \$20,000. The College of Health & Human Development has already committed funds for the participation of one ICIK working group member to attend the proposed workshop.

Other participating faculty will seek additional funding from their college, center and/or department in order to increase the number of faculty able to develop research projects. The requested funds are solely for travel and related travel expenses while faculty members will follow-up on existing contracts in East Africa and seek new research collaborators.

Name and phone number of your department's budget coordinator:

Jason Bush

Budget and fund number: 001-51 NK (Fund # is 10010)

Administrative area number: 087

12. Identifying Information:

Lead Investigator:

Name: Jyotsna (Josi) M. Kalavar, Associate Professor of Human Development and Family Studies
Address: Room 120 Engineering Building, New Kensington, PA 15068
College University College
Phone 724-334-6745
Fax 724-334-6039
Email jmk18@psu.edu

Collaborating Investigator:

Name: Audrey N. Maretzki, Professor of Food Science and Nutrition
Address: 218 Food Science Building, University Park, PA 16802
College of Agricultural Sciences
Phone 814-863-4751
Fax 814-863-6132
Email anm1@psu.edu

Collaborating Investigator:

Name S. Gaylen Bradley
Title: Visiting Professor of Biochemistry & Molecular Biology and of Pharmacology
Address H-171, Penn State University College of Medicine, Hershey , PA 17033-0850
College of Medicine
Campus Hershey
Phone 717-531-8780
Fax 717-531-7072
Email sgb4@psu.edu

Collaborating Investigator:

Name: Mala R. Chinoy
Title: Professor Pediatric Surgery
Address: H113, Hershey Medical Center, Hershey , PA 17033-0850
College of Medicine
Campus Hershey
Phone 717-531- 1018
Fax 717-531-4185
Email mrc6@psu.edu

Pre-Submission Checklist for Level 2 Proposals

Level 2 proposals are designed to support the development of research that has the potential for later external funding. As we have tracked Level 2 proposals over time, we have found that they are more likely to foster success in securing external grants when the faculty team has fully explored funding opportunities and used that information to inform the design of their research plan and Level 2 activities. Based on the prior experiences and advice of faculty, we suggest that you take the steps below prior to submitting your Level 2 proposal. Please copy the completed questionnaire and paste to the end of your Level 2 proposal submission.

1. Are you responding to a specific request for proposal (RFP), program announcement, or other special funding initiative? If yes, which one and what is its timeline?
 - Mala Chinoy, Jyotsna Kalavar, Veronica Montecinos and Gaylen Bradley have begun work on a letter of intent responding to National Institutes of Health RFA-RM-07-004. Facilitating interdisciplinary research by methodologic and technological innovation in the behavioral and social sciences. The submission date is February 23, 2007 and the earliest activation date is September 15, 2007.
 - The team leaders (Audrey Maretzki, Jyotsna Kalavar, Mala Chinoy, and Gaylen Bradley) have explored possibilities of foundation support with Jane Childs of University Development. In addition, Ladislaus Semali has made contact with representatives of the Ford Foundation and the Rockefeller Foundation in East Africa.
 - The team leaders have met with Reinhold Wyotek in University Park and in Hershey to explore funding from the ministries of Tanzania about funding through the World Bank.
 - Mala Chinoy has been in contact with the National Science Foundation about funding for research on the sociologic and cultural aspects of change. Preliminary contacts have failed to identify an interesting indigenous knowledge per se, except for artic communities.

2. Have you spoken to an agency/foundation official (e.g., project officer) to determine their interest in this project or project area and get feedback on your concept and approach?
 - See above. One contact at the National Science Foundation was Anna Kerttula in the Social Sciences Directorate.

If so, please describe the communication you have had with the possible funder(s), including their level of interest in your idea, and any input they may have had on the study you are proposing.

- See above. The most promising match to date is the National Institutes of Health RFA-RM-07-004. Facilitating interdisciplinary research by

methodologic and technological innovation in the behavioral and social sciences.

3. Have you examined other current projects funded by the agency you are targeting for funding? How does your study compare with projects in similar domains that have been funded by your targeted agency? In particular, does the scope of your methodology appear similar to other funded projects (in terms of the size and representativeness of the sample, measurement strategies, design and planned analytic approach)?
 - Foundation search sites: NIH: <http://crisp.cit.nih.gov/> & NSF: <http://www.nsf.gov/awardsearch/>
 - Ernest Johnson, Director of Research Development at Penn State Hershey is referring RFAs and RFPs to Gaylen Bradley and Mala Chinoy. In addition, these two investigators receive periodic announcements of funding opportunities from the Community of Science.
4. Have you gathered information about the criteria that will be used to evaluate your proposal and about the likely reviewers?
 - The full RFA for "Facilitating interdisciplinary research by methodologic and technological innovation in the behavioral and social sciences" has been made available to the working group, and Mala Chinoy, Jyotsna Kalavar, Veronica Montecinos and Gaylen Bradley have begun to prepare a Letter of Intent.
5. It is important to let your department head and/or college research dean know about this project to keep them in the loop. Have you done this?
 - Mala Chinoy has discussed the current CYFC proposal with Dr. Jay Moskowitz, Vice Dean for Research at Hershey and with Dr. Ernest Johnson, Director of Research Development at Hershey. Gaylen Bradley and Mala Chinoy have also met with Pamela Lambert from University Development at Hershey and with Sheilah Borne-Fuller, Governmental Relations at Hershey about our efforts to fund research in social and cultural aspects of health on a global scale.

APPENDIX

DomainKey-Signature: a=rsa-sha1; q=dns; c=noaws;
s=s1024; d=yahoo.com;
h=Message-ID:Received:Date:From:Subject:To:Cc:In-Reply-To:MIME-
Version:Content-Type:Content-Transfer-Encoding;

b=4ku09j+YpkeKIVhLtmJ2NeWYoAV7xQJ13szCw9v33xWjUNqV/4w/EcNhPUmb30
Z8wXOFKwgr3RpzYAkHIZcMilUTMRw0wRJyJQCCh/dR2zFG2/w2m4PBSTGBKZM
mkgqdNlffLsbgMMMUwzuWUtlkK+FHBGuMgVnYGG3VU1bVDSM= ;

Date: Tue, 31 Oct 2006 17:05:47 -0800 (PST)

From: Peter Mamiro <petermamiro@yahoo.com>

Subject: Re: CYFC proposal

To: Audrey Maretzki <anm1@psu.edu>, dpm204@psu.edu

Cc: Gaylen Bradley <sgb4@psu.edu>,
"Jyotsna \ (Josi) M. Kalavar" <jmk18@psu.edu>, lms11@psu.edu

X-Virus-Scanned: amavid-sophos

X-PSU-Spam-Flag: NO

X-PSU-Spam-Hits: 0

Dear Audrey,

Thanks for your mail, You can include us as collaborators in Tanzania.

I am not sure if I know the personalities mentioned by Ladi Semali, from Tengeru Horticultural Research and Training Institute, although the names sounds familiar.

I would like to Propose some names of who could also be collaborators:

(1) Dr. Joyce Lyimo-Macha from Sokoine university of Agriculture, Institute for Continuing Education Contacts:

joylimac2@yahoo.com Mobile: +255 754 368877 Fax: +255 23 2603718

(2) Idda Ammani Makawia from Patandi Teachers Training College, Arusha, Contacts:

makawiaidda@yahoo.co.uk Mobile: +255 754 306465

(3) Dr. Ruth Minja from the Ministry of Agriculture, Contacts:

ruminja@yahoo.com

I have forwarded the same e-mail from Prof. Audry to the above personalities in Tanzania:

NB: Please, Dr. Bradley and Josi, check if the support letter, I have attached, meets your expectations. If not, advice me the modifications required to suit the purpose.

Yours Sincerely

Peter



SOKOINE UNIVERSITY OF AGRICULTURE

FACULTY OF AGRICULTURE

DEPARTMENT OF FOOD SCIENCE & TECHNOLOGY
P.O. Box 3006, MOROGORO – TANZANIA

TEL/FAX 0232 – 604402 OR 0232 - 603511- 4 EXT. 4419-22

TELEGRAMS: UNIAGRIC – TELEX: 55308

Our Ref: FS/A/137

Date 31.10.2006

Dr. Audrey Maretzki
Department of Food Science
College of agricultural sciences
218 Food Science
University Park, PA 16802
USA

Dear Dr. Audrey,

Tanzania is really struggling hard to improve the living standards of its populace and hence address the United Nations Millennium Development Goals. However, involvement of various institutions in the country, in the whole process is crucial for the goals to be achieved.

I strongly support the initiative of having a workshop and community based research that aims to address The Millennium Development Goals in Arusha Tanzania. I am ready to collaborate in the above activities whether physically or passively, whichever way I will be of use.

Yours Sincerely,

Dr. Peter Simon Mamiro

Mobile: +255 754 462 006
E – Mail: petermamiro@yahoo.com

QUOTATION OF REF. NO. IS ESSENTIAL

Date: Tue, 31 Oct 2006 20:19:16 -0500
To: Audrey Maretzki <anm1@psu.edu>
Cc: petermamiro@yahoo.com, Gaylen Bradley <sgb4@psu.edu>, "Jyotsna (Josi) M. Kalavar" <jmk18@psu.edu>, lms11@psu.edu
Subject: Re: CYFC proposal
From: "DELPHINA P MAMIRO" <dpm204@psu.edu>
X-Mailer: Penn State WebMail
X-Sender: dpm204
X-Originating-IP: 128.118.21.151
X-Virus-Scanned: by amavisd-new

Dear Audrey,

Thank you for an e-mail and proposal attachment. I have attached the personal support letter of the collaborative work proposed to be carried in Tanzania. Please let me know if the attached letter meets the purpose.

Have a safe journey back to Penn State.

Best regards,

Delphina

Tanzania Official Seed Certification Institute (TOSCI)
National Seed Testing Laboratory
P. O. Box 1056 Morogoro
Tanzania

30th October, 2006

Dr. Audrey N. Maretzki
218 Food Science
Department of Food Science and Nutrition
College of Agricultural Sciences
University Park, PA 16802
USA

Dear Sir/Madam,

Success in achieving Millennium Development Goals (MDG) would come through collaborative efforts from local communities as well as from the experts. Contributions from each individual and from each organization when placed together will form a gigantic force to push developmental efforts particularly in Tanzania and in Sub-Saharan Africa at large and set free these people from poverty, hunger, and poor health services.

I am strongly willing to support, share, and participate in the efforts from multi-disciplinary team to address the MDG in Tanzanian rural communities through community-based research approach, which encompasses indigenous knowledge.

Sincerely,

Delphina Mamiro

DomainKey-Signature: a=rsa-sha1; q=dns; c=noaws;
s=s1024; d=yahoo.co.uk;
h=Message-ID:Received:Date:From:Subject:To:MIME-Version:Content-Type:Content-
Transfer-Encoding;

b=vv/uy/60PldV0iyhPxhjJudRI0ttHK0WF/+kUDWn01BNlfEcVKr7WYYXVwQc2XD
zVRmpj1Ys83SiVj2wG3N3GfgWL2dGa/C1VPNcklEK2sBXyA0Kmgv1pHn17dZ3rpT
NPp0VPKhbO6NlyVoCvir39eXOouOplDse0CPipaw5aA0= ;

Date: Wed, 1 Nov 2006 06:14:57 +0000 (GMT)
From: Idda Makawia <makawiaidda@yahoo.co.uk>
Subject: RE:Supporting letter
To: sgb4@psu.edu, jmk18@psu.edu, lms11@psu.edu
X-Virus-Scanned: amavisd-sophos
X-PSU-Spam-Flag: NO
X-PSU-Spam-Hits: 0.19

Dear Dr.Audrey colleagues,

I would like to present my supporting letter after reading carefully your proposal. I develop an interest to participate in the exercise because I have a background on food security and human nutrition .Therefore I'm confident that I can be one of your team member. I received the information from my lecturer Dr. Peter Mamiro from Sokoine University of Agriculture.

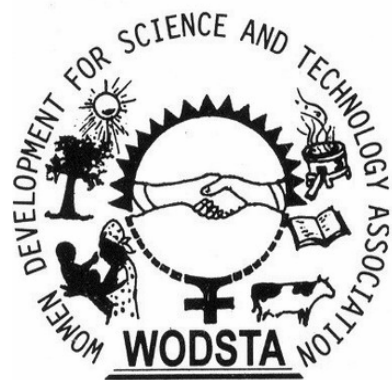
Please have an attachment of the letter.

Thank you in advance

Idda Amani Makawia

IDDA A.MAKAWIA
BOX 1618 ARUSHA
TEL.+255744306465

makawiaidda@yahoo.co.uk or iddaamani@yahoo.co.uk



Njiro Agricultural Showground
P.O. Box 3182
Arusha , Tanzania
Phone: +255 (0)27 250 1165
Email: wodstatz@yahoo.com
Website: www.wodsta.org

1st Nov., 2006

Reference Number.....139

Dr. Audrey Maretzki
Department of Food Science
College of agricultural sciences
218 Food Science
University Park, PA 16802
USA

Dear Dr. Audrey,

Tanzania is one of developing countries which is in frontline in struggling to improve the living standards of its people to address the United Nations Millennium Development Goals. Various institutions in the country are also involved with collaboration with the government in the whole process. I strongly support the initiative of having a workshop and community based research that aims to address The Millennium Development Goals in Arusha Tanzania. I am ready to collaborate in the above activities whether physically or passively. I have a background in Food Security and Human Nutrition so I hope I will fit in your team. I'm also residing in Arusha.

Yours Sincerely,

Idda A. Makawia

makawiaidda@yahoo.co.uk mobile 0754 306465



SOKOINE UNIVERSITY OF AGRICULTURE
INSTITUTE OF CONTINUING EDUCATION
P.O. BOX 3044 MOROGORO, TANZANIA
TEL: +255-23-2603511/4 General; +255-23-2604549 (Direct)
Fax: +255-23-2603718,
E-Mail: (joyce@suanet.ac.tz), or (ice@suanet.ac.tz)

Our Ref./

Your Ref:

Date Nov 2, 2006

Dr. Audrey Maretzki
Department of Food Science
College of Agricultural Sciences
218 Food Science
University Park, PA 16802
USA

Dear Dr. Audrey,

Tanzania has embraced the Millennium Development Goals (MDGs) within its national poverty monitoring system since 2001 and has made considerable progress in achieving them. Despite important progress, efforts need to be accelerated to improve the living standards of its population. Various Government institutions, private sector, civil society and development partners, are key in the whole process of developing strategies to reach the goals and attain the MDGs more broadly.

I strongly support the initiative of carrying our research, extension and outreach activities in Arusha, as well as having a workshop and community based research that aims to address The Millennium Development Goals in the efforts of supporting Usa River residents in Arusha Tanzania. I am willing to assist wherever possible in any of the above activities.

Thank you for considering Tanzania in your efforts.

KARIBU

(Signed)

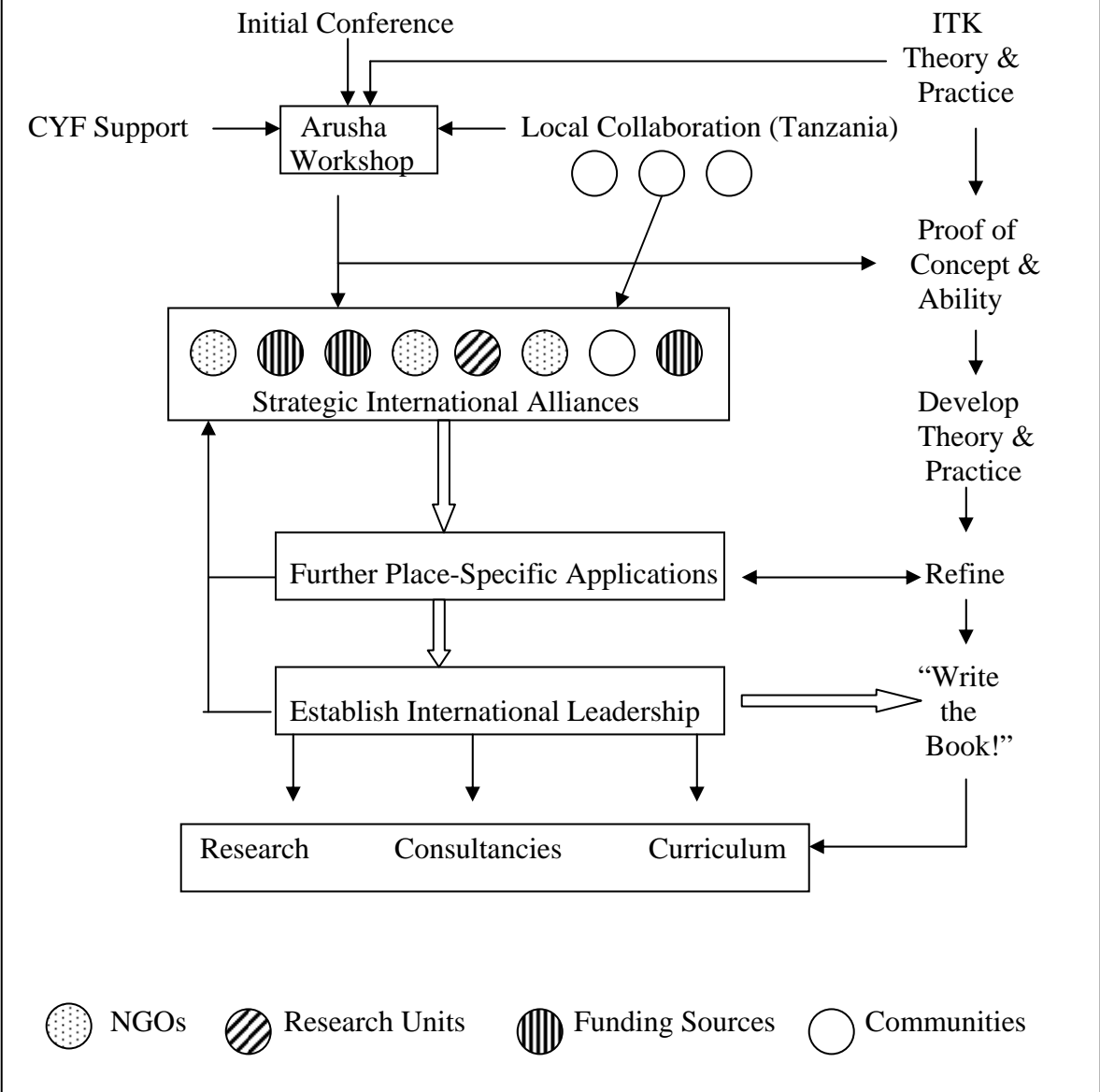
Dr. Joyce G. Lyimo-Macha

Penn State Alumnae

Mobile: +255 754 368877

E-mail: (joyce@suanet.ac.tz) or joylimac2@yahoo.com

INTEGRATION OF INDIGENOUS KNOWLEDGE



Indigenous Knowledge and Development Multidisciplinary Working Group

Bob Ackerman	Dickinson School of Law - Carlisle
Clemente Abrokwa	African and African-American Studies -UP
Wenda Bauchspies	Anthropology, STS and Women's Studies - UP
Latika Bharadwaj	Graduate Student - Agricultural Economics - UP
S. Gaylen Bradley	Pharmacology, Biochemistry, Molecular Biology, COM
Christine Buzinde	School of Hospitality -UP
Jane Childs	Foundation Relations -UP
Mala Chinoy	Surgery - COM
Tom Colledge	Engineering Design - UP
Liza Conyers	Rehabilitation Education - UP
Lisa Davis	Office of Rural Health - UP
Bayou Demeke	Agricultural Economics and Rural Sociology -UP
Thaddeus Ityokumbul	Geo-Environmental Engineering/AESEDA - UP
Michael Jacobson	Forest Resources - UP
Lewis Jillings	International Programs Office - UP
Jyotsna Kalavar	Human Dev. & Family Studies-PSU New Kensington
Donna King	Graduate Student -ICIK Program Associate - UP
Greg Knight	Geography - UP
Alicia Knoedler	Corporate and Foundation Relations - UP
Gretchen Kuldau	Plant Pathology -UP
Carleen Maitland	Information Sciences and Technology - UP
Delphina Mamiro	Tanzania Official Seed Certification Institute - Morogoro
Peter Mamiro	Food Science & Nutrition - Sokoine Univ.
Audrey Maretzki	Food Science and Nutrition - UP
Andrew Martin	Farm Management - Mifflin Co. Extension
Margaret Mbeseha	Graduate Student - Rehabilitation Education - UP
Ruth Mendum	Office of International Programs - UP
Veronica Montecinos	Sociology - PSU McKeesport
Duarte Morais	Tourism Management - UP
Eunice Mutitu	Plant Sciences - University of Nairobi
Campbell Plowden	Center for Amazon Community Ecology
Kristy Putnam	Medical Student - COM
Edward Schwentker	Orthopedics and Rehabilitation - COM
Ladislaus Semali	Curriculum and Instruction - ICIK Co-Dir. - UP
Amit Sharma	School of Hospitality -UP
Tricia Staley	Medical Student - COM
Marieta Staneva	Geography - PSU Altoona
Alawia Suliman	Pediatrics - COM
Osman Suliman	Economics, Millersville University
Kenneth Tamminga	Landscape Architecture - UP
Petra Tschakert	Geography - AESEDA - UP
Stephanie Tyworth	PSU Outreach - UP
Ann Viozzi	Family and Community Medicine - COM
Fred Vondracek	College of Health and Human Development - UP

10/30/06