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PRESIDENT Prof John.Hattie University of Auckland New Zealand	CONTENTS	
PRESIDENT-ELECT Prof. Fanny Cheung Chinese University of Hong Kong	YOUR ITC COUNCIL ARTICLES	2
Hong Kong SECRETARY Prof. Dave Bartram	In Focus ITC Scholars 2012	2
SHL Group, UK TREASURER Prof. Em. Barbara Byrne	ITC Scholars Articles on Testing in Their Country Psychological Testing in the Ukraine: Peculiarities,	2
University of Ottawa, Canada PAST-PRESIDENT Prof. Marise Born	Goals and Perspectives Khrystyna Rakhubovska, Ukraine	3
Erasmus University Rotterdam Netherlands COUNCIL MEMBERS	Testing in Belize Betty-Jean Usher-Tate, Belize	4
Elected Members Prof. Frederick Leong Michigan State University, USA Prof. Kurt Geisinger	Application and Development of Testing in China Jieting Zhang, Minqiang Zhang, Wenyi Zhang, China	6
Buros Center on Testing & University of Nebraska, USA Prof. Dragos Iliescu SNSPA Bucharest, Romania	Test Translation, Adaptation and Development: The Situation in Pakistan	
Aletta Odendaal University of Johannesburg South Africa Dr. Solange Wechsler	Sobia Aftab, Pakistan Gender Differences in Mathematics and Science Performance	8
Pontificia Universidade Catolica de Campinas, Sao Paulo, Brazil Co-Opted Members	in Malawi Ella Banda, Malawi	9
Dr. David Foster, Kryterion, USA Prof. Ron Hambleton, University of Massachusetts, USA Observers	The Structural Validity of the Inductive Reasoning Developmental Test for the Measurement of Developmental Stages	
Prof. Marise Born, Erasmus University Rotterdam, Netherlands of. Paula Elosua, Universidad del País Vasco, San Sebastián, Spain	Hudson F. Golino Cristiano & Mauro Assis Gomes, Brazil Current Developments of Clinical Assessment in Bulgaria	10
REPRESENTATIVES IUPsyS Representative Dr. Merry Bullock	Zornitsa Kalibatseva, United States The Philippine Educational Measurement and Evaluation Association	11
American Psychological Association, USA IAAP Representative Prof. Tom Oakland	Ronnel B. King, Hong Kong NEWS	13
University of Florida, USA		14

AN OFFICIAL PUBLICATION OF THE INTERNATIONAL TEST COMISSION

Articles

President Elect Fanny Cheung Honoured with Prestigious APA Award



ITC President Elect, Professor Fanny Cheung is co-recipient of the 2012 APA Award for Distinguished Contribution to the International Advancement of Psychology, she will give an award address at the 2013 APA convention in Honolulu. Two

other Council members Fred Leong and Tom Oakland are both former recipients of this international award. The APA has produced an article on her contribution to international psychology http://www.apa.org/international/pi/2012/06/cheung-landis.aspx

Teach Your Children Well: A Conference to Honour Ron **Hambleton**

November 9-10, 2012 **University of Massachusetts Amherst USA**



Registration deadline: September 1, 2012 Call for posters, registration information, invited speakers and other information can be found at www.umass.edu/ronference

Interested in contributing to our Committees?

The ITC has 6 Committees, each chaired by a Board member and include non-Board ITC members:

- Publications, Communications & Marketing -Chair Fred Leong
- Membership, Involvement & Marketing Chair **Dave Foster**
- Conferences Chair—Fanny Cheung
- Research & Guidelines Chair Dragos Iliescu.
- Policies Chair Tom Oakland
- Outreach Chair Ron Hambleton

Contact John Hattie for further information jhattie@unimelb.edu.au

The work of the committee's will next be reported on at the AGM during the Amsterdam conference.

ITC Scholars 2012

The 2012, early career scholars (under 35) will be present at the 8th conference of the International Test Commission in Amsterdam. The scholarships enable recipients to attend ITC conferences and provide an opportunity to internationally network.

If you are attending the 2012 ITC conference in Amsterdam www.itc2012ams.com look for their posters or presentations.

Profile of the 2012 Scholars

Jieting (Jenny) Zhang has completed postgraduate and doctoral programs study in psychological measurement and statistics, at South China Normal University, Guangzhou, China and is currently undertaking a study visit to



Penn State University from Sep. 2012 to Sep. 2013. Her research interests are in Latent class modeling, categorical data analysis and classification testing. Jenny's ongoing research includes college students' consuming behavior in Guangzhou, China and a comparison of methods of diagnosis of college students' mental health status.



Sobia Aftab obtained a PhD in Clinical Psychology from the Institute of Clinical Psychology, University of Karachi-Pakistan. She works as an Assistant Professor at Institute of Clinical Psychology (ICP), University of Karachi, Pakistan and is a Practicing Consultant

Clinical Psychologist. She is the Member Editorial Board for the "Pakistan Journal of Clinical Psychology" and "Pakistan Journal of Psychology" published by ICP. Her research focus is in the field of Clinical Psychology, especially various mental health issues, including Depression; Attributional Style; Cognitions; Suicide; Self-Esteem; Social Support; Marital Adjustment. Her other research interests is Psychometrics and she is working on the adaptation and development of different scales in local language.

Ella Banda has a Masters degree from the University of Massachusetts. She worked as a secondary school teacher, teaching Mathematics and Biology, prior to joining the Malawi National Examinations Board (MANEB), as a Research and Test Development officer. Ella's job



involves developing and administering standardized national examinations for primary and secondary schools, as well as research in assessment and she has applied to study for a Ph.D. Her research interests are in item response theory and structural equation models.



Khrystyna Rakhubovska is from Kiev, Ukraine. She obtained a Masters degree in Psychology at the National Taras Shevchenko University of Kiev in June 2011. During her studies at University she adapted the Test of Motivational Ori-

entation (TOM), the Big Five Questionnaire-2 (BFQ-2) and the Poppleton Allen Sales Aptitude Test 2000 (PASAT 2000). Currently a postgraduate student and an R&D manager for a test publishing company in the Ukraine, her main interests are in test development and adaptation and cultural differences.

Betty-Jean Usher-Tate is from Belize, the only English speaking country in Central America, with a population: 350,000. Betty travelled to the USA to study Early-Childhood Education and returned to Belize with an Associate



Degree, then completed an undergraduate degree in Secondary Education. She became an English Teacher at Ecumenical Alma Mater High School, then taught at the University of Belize. Betty went on to become Vice-Principal of Delille High School. In Belize, high school admission is linked to scores from a national exam. When her government expressed a need for a Belizean Psychometrician, Betty-Jean relocated with her family to the USA to pursue a PhD in Psychometrics. Her current areas of interest include high-stakes testing, test-fairness, testing special populations, and validation.



Hudson F. Golino is a Master's student in Developmental Psychology and has a Bachelors degree in Psychology from the Universidade Federal de Minas Gerais (UFMG), Brazil. He is currently working at the Laboratory for

Cognitive Architecture Mapping, UFMG and has collaborated with the Dare Institute, Cambridge, MA, USA, since 2008. Hudson has been working on the construction and validation of psychological and educational instruments. He is interested in the organization and development of the mind's architecture, developmental stages, cognitive change and psychometry.

Zornitsa Kalibatseva is from Plovdiv, Bulgaria. She has a Master's degree in Clinical Psychology from Michigan State University on assessment of depression among racial and ethnic minorities in the U.S. She is currently a postgraduate Ph.D student, looking



at the influence of cultural factors on the experience and expression of depression. Zornitsa will co-chair a symposium during the ITC Conference on 'Crosscultural assessment of psychopathology' and will present her Master's research during the symposium. Her interests are in the assessment of crosscultural psychopathology and in examining the current state of clinical assessment in her Country.

Ronnel B. King is currently a Ph.D. candidate in educational psychology at the Faculty of Education, The University of Hong Kong. He obtained his bachelor's degree in psychology from Ateneo de Manila University (Philippines) with first class honors. His



doctoral dissertation focuses on the investigation on how different types of goals motivate students to be engaged in school and how they facilitate psychological adjustment and well-being. His research interests are in the investigation of student motivation and well-being and in the development and validation of instruments designed to measure psychoeducational constructs in cross-cultural contexts.

SCHOLAR PAPERS

Psychological testing in the Ukraine: Peculiarities, Goals and Perspectives Khrystyna Rakhubovska Ukraine

In order to understand clearly the situation on psychological testing in Ukraine it is important to take into account the history of Ukrainian psychodiagnostics. Before the Russian Revolution of 1917 in Russia (Ukraine was a part of Russia at that time) all existing worldwide tests were well-known and original tests were being developed. For example, there was a famous test called "Psychological Profiles" created by G. Rossolimo (Rossolimo, 1909). During the Soviet period of Ukrainian history, especially in the 1920-30s testing in educational, organizational and counselling context was very common. Foreign tests were translated, new instruments were developed and scientific research on testing was conducted. Nevertheless, in 1936 testing was criticized and considered by the government as a practice based upon unscientific and "bourgeois" ideas. Subsequently, a lot of scientific institutions and laboratories were liquidated. For a long period of time testing was abandoned in the USSR.

In the late 1960s – the early 1970s the government officially acknowledged the need of testing development in the USSR. However, academical psychology kept treating testing neutrally or even negatively. Despite that, testing was used in psychological assessment practice. At that moment of time testing was used above all in clinical setting. Although, a long-term rejection of psychological testing had a very bad influence on further development of Soviet psychodiagnostics. Thus, in the 1980s only

a small part of Soviet psychologists were familiar with concepts of test validity and reliability and procedures for their evaluation. A lot of invalid and unreliable tests were developed, various foreign tests were translated and published without any copyright. In the late 1980s the situation changed slightly for better – even though so called quasitests were being published, certain monographs and manuals about the history of psychodiagnostics, psychometric properties and development of tests were issued. After disintegration of the USSR in the early 1990s and over the following 21 years the situation on testing in Ukraine has not changed fundamentally.

Ukrainian psychodiagnostics remains almost the same. Test users are offered the famous foreign tests, sold without any rights of their replication and sale. This does not only infringe upon interests of the authors, but also disables an author's supervision of a test adaptation. This leads to mistakes and confusion. In addition, most of the tests sold in Ukraine are outdated and education in the field of psychological testing is taught by professors, who do not have sufficient qualification for this activity.

The use of so called quasi-tests does not only undermine the authority of psychology as a science but may also damage mentally a person taking a test and influence negatively his or her further life. Finally, a professional nihilism towards tests is formed. It is a consequence of the absence of control of testing practice. Besides, the current situation complicates the integration process of Ukrainian psychology into the international scientific community.

To change the current situation it is important to create a testing infrastructure which requires the implementation of certification of tests and test users as well as the emergence of test publishers which take full responsibility for their products and act in accordance with the copyright law. Definitely, this infrastructure must contain a specialized post-graduate education system in the field of psychological testing which is necessary for professional test usage.

Currently there are no specific resolutions and authorizations concerning test standardization and respect for test authors' rights as well as certification of test users. Nonetheless, a big contribution to development of psychological testing in Ukraine was made by Prof. Dr. Leonid Burlachuk, the author of numerous publications in the field of psychodiagnostics and the first handbook on psychological testing. He works in educational activity regarding psychological testing and has also initiated, in 2008 the foundation of the first Ukrainian test publisher, OS Ukraine, in cooperation with the Italian test publisher Giunti O.S. The first psychodiagnostic instruments which meet international requirements are

now emerging in the Ukraine. All details can be found on the website of OS Ukraine: www.osukraine.com.

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I wish to express my gratitude to Prof. Dr. Leonid Burlachuk for his assistance and provision of the materials essential for preparation of this article.

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Testing in Belize Betty-Jean Usher-Tate Belize

Educational System and External Examinations

The beginning of formal education in Belize (formerly British Honduras) dates back to 1816 with an effort to educate "the young and disadvantaged children" in the Honduras Free School which offered religious and academic instruction (Bennett, 2008). Under British colonial rule, the Church-State system of education was established. In twenty-first century Belize, this symbiotic partnership remains in existence mostly because Belizeans perceive religion and moral teaching as an integral part of one's education. The system has also worked conveniently for the Belize government thus far. Secondary education began with Wesley High School in 1882 operated by the Methodist Mission (Bennett, 2008). By 1900 there were five high schools in the country; all managed by the religious denominations with little or no support from the government. Unlike primary schools which were tuition-free, secondary education required a financial investment for tuition, fees, textbooks, school supplies, and uniforms. According to Bennett (2008), the only contribution made to these schools in the early 1900s was an incentive bonus to the teacher or school for each student who passed the Cambridge Local Examinations.

Partly as validation of the quality of education received in Belize, students were encouraged to sit external examinations. Nevertheless, success in these examinations

translated into scholarship opportunities, university admissions, and employment benefits (increased salaries). External examinations that were advocated included but were not limited to the Cambridge Local Examinations, General Certificate Examinations, Royal Society of Arts Examinations, and the City and Guilds.

Geographically, Belize is both Caribbean and Central American. Historically, Belize identifies more with the English speaking Caribbean. In 1972 the Caribbean Examinations Council (CXC) was established with Belize as one of its 16 participating territories (CXC, 2012). British made exams were gradually replaced with subject specific tests prepared by the CXC: Caribbean Secondary Examinations (CSEC) for high school level and Caribbean Advanced Proficiency Exams (CAPE) for the tertiary / junior-college level. There are fees associated with each CXC test. In Belize, even though 25% of the nation's budget is spent on Education (Faber, 2011), students bear the full cost for the number of CXCs they take.

National Examinations

There are three major national examinations: one for secondary and two for primary school. The primary school exams are government sponsored (no cost to students).

Twelfth grade. The Association of Tertiary Level Institutions in Belize (ATLIB) prepares an exam which is intended for high school seniors applying for admission to tertiary level institutions (sixth forms / junior-colleges) within Belize. It is administered simultaneously across the nation once per year. Like the CXCs, students pay to sit this exam.

Sixth grade. The Belize Junior Achievement Test (BJAT) intended for all students in sixth grade. It is not offered simultaneously. BJAT is designed to inform and bears minimal negative consequences; it is low stakes.

grade. The Primary Eighth Examinations (PSE) is also a paper-based exam. Items are based on the contents outlined in the national primary school curriculum. Four constructs are covered: English Language Competence, Math Competence, Science Competence, and Social Studies Competence. Each of the four content competencies is worth 100 points. The English Language Competence score is derived from three subtests (letter writing 20, composition 30, and comprehensive multiple choice items 50). The Math Competence score is derived from two subtests measuring math ability (multiple choice format 50 and student-generated responses 50). The Science and Social Studies are stand-alone tests with multiple choice formats.

PSE is administered in two days (about 4 weeks apart). High school facilities are used as testing centers and high school teachers invigilate

the examinations under the auspices of the Ministry of Education. To date, there have been very few instances of test-accommodations. The PSE is a high stakes test because one's composite score (averaged competencies) has direct impact on high school selection and admission. Some scholarship awards are also dependent on PSE scores.To date, published analyses of PSE results have been limited to descriptive statistics. Because the PSE carries such high stakes, validity of scores is very important. Invariance testing using structural equation modeling (SEM) techniques allows simultaneously researchers to estimate relationships among multiple variables for different groups such as gender and ethnicity (Motl et al., Structural equivalence, or invariance, 2002). concerns whether the theoretical structure of the instrument is the same for members of different groups (Byrne & Watkins, 2003).

In an unpublished SEM term paper, Usher-Tate and Anderson (2012) used scores from the English Language and Math Competence subtests of the 2010 PSE to conduct measurement invariance tests. There were 6,525 students represented in the dataset. For gender, the model tested operated the same for boys and girls. However, significant differences/variances were observed across language and school location categories, indicating a need for investigation. On the other hand, Catholic managed institutions accounted for approximately half of the sample, but invariance testing showed insignificant difference. This indicates that whether the churchstate partnership was Catholic or Non-Catholic, it made little difference in student achievement on the 2010 PSE English and Math. Future research with analyses using item level datasets will be useful.

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Application and Development of Testing in China Jieting Zhang, Minqiang Zhang, Wenyi Zhang, South China Normal University Guangzhou China

On the Chinese Mainland, candidates of any test are numerous because of a huge population. The number of College Entrance Examination takers has reached ten million, and the number of candidates participating in Graduate Admission Test has increased to 1.2~1.5 million. Moreover, there are a large number of candidates examinations, such as Doctor Examination, Qualified Practitioner Examination, CPA examination, Civil Service Examination, and even in tests for foreign candidates, such as HSK. Since the recovery of the College Entrance Examination in 1970s, promotion of testing has taken place in Chinese Mainland, through the efforts of Houcan Zhang and other pioneering psychologists. Nowadays, psychometric committee has been established under Chinese Psychological Society, and a branch for educational measurement and statistics has also been set up under Chinese Educational Society, with approximately 1,000 members. These professionals active in all kinds of fields are prompting the theory and application studies in psychometrics, leading to great achievement in theory and application of Classical Testing Theory Theory Item Response (IRT) Generalizability Theory (GT). Plenty of scales with conformance to psychometric rules have been widely used for different kinds of population, which an important role in mental improvement and mental disease prevention for Chinese people.

In recent years, we have investigated the application and theoretical development of psychological and educational testing, by reviewing the related articles published in five distinguished Chinese journals on psychology and education, from 2000 to 2009. The application and development of testing in China are discussed in accordance with these results.

Application of Psychological and Educational Testing

A multitude of important psychological scales have been revised in China mainland. Besides localization of foreign scales, many scales with considerably high reliability and validity have been newly complied in accordance with the practical condition and demand of domestic application and research, such as Irrational Belief

Scale of Middle-School Student and Computer Game Addiction Inventory for Chinese College Students. By the end of the last century, a handbook of scales for mental hygiene has been published with approximately 140 scales of common use. Furthermore, about 60 psychological inventories have been translated or complied in sport science alone.

Testing is mainly used in four aspects in China mainland. Firstly, routine test of ability or achievement is applied to evaluate performance of students and teachers as well as the effect of teaching and learning. Secondly, matriculation exams and vocational qualification exams not only promote efficiency of talent recruiting, but ensure equity in recruitment and prompt rational allocation in human resource. Thirdly, scales regarding mental health and personality are widely used in psychological counseling in order to take intervening measure or therapy beforehand. Last but not least, academic achievement tests and psychological scales are also scientific research tool for theoretical or empirical studies in psychology and education.

According to the review study, scales are used quite extensively in psychology studies, accounting for about 15% of that total. However, it is not that common in educational studies, which only accounts for up to 4%. Among the application, about 40% used the scales developed during their temporal studies, which reflects the great needs of developing new scales in various psychology studies. However, reliability and validity for these self-developed scales requires further investigation and deserve more attention on the conclusion, since they are lack of long-term verification. The further investigation on scale property is also beneficial for the generalization of these scales. Moreover, the inappropriate "reliability induction" is quite common when applying the scales developed by previous researchers (Jiao, Huang, Zhang, Wu, & Wang, 2010; Jiao, Zhang, Zhang, Wu, L., & Zhang, 2011; Jiao, Zhang, Wu, & Zhang, 2010). Research Organizations in China have to strengthen the effort in proposing researchers to report the reliability coefficient of the samples at hand.

Development of Testing Theory and Method

Due to the expanding scale of application in multiple tests and the rising demand of test organizing, studies on theory and method of testing has been strongly facilitated in China mainland. Measuring application under CTT framework has been popular, and some researchers have proposed certain improving methods specific to the defects of CTT. For instance, it is advised that item analysis and reliability analysis should be conducted in sub-group of test sample, rather than in the whole sample, so as to avoid the over-rigid

coefficients.

gradually applied in all kinds of tests. Over 500 education. academic theses on IRT have been published since 2001. Among those, Computerized Adaptive Test application and demand of testing as well as the (CAT) is a hot spot in IRT application, many growing academic communication, the testing research projects have been set up on the system methods in China are developing rapidly and of CAT, such as College English Test, which is in applied extensively. Nonetheless, we have to make the experimental stage. Additionally, item banks of a more efforts in recommending new methods in certain important tests are constructed on the basis application, so as to stress the importance and of IRT, adopting polytomous scoring and Samejima influence of testing in psychological and educational graded response model; some measuring experts studies. make use of IRT in the test item analysis (Chen, different References 2011). Combination among measuring theories or techniques is no longer rare Chen, X., Ding, S. (2011). The Variable-weighted nowadays, such as integration of CAT and cognitive diagnostic model (Tang, Ding, &Yu, 2012). Recently, professors in South China Normal University are working with Computer adaptive test system for elementary and secondary school Jiao, C., Huang, Z., Zhang, M., Wu, L., & Wang, X. students; moreover, cognitive diagnostic model are used to provide further information on the structure of students' ability.

There is increasing research and application of generalizability theory (GT) since it was adopted CNKI database alone, we could find more than 130 theoretical or applied research achievements in the last ten years. For one thing, GT is mainly used in assessing error of subjective evaluation, such as structured interview, performance evaluation and Jiao, C., Zhang, J., Wu, L., & Zhang, M. (2010). vocational-technical examination, and improving design of evaluation (Li, & Zhang, 2009; Xu, Zhang, & Li, 2009). For another, GT is used in analyzing reliability and validity of a certain large-scale test (e.g. College Entrance Examination, language test) Jiao, C., Zhang, M., Zhang, J., Wu, L., & Zhang, W. and psychological scales (Zheng, Gu, & Zhu, 2009). Moreover, some theoretical researches in this realm are acting on international convention by degree; GT combined with IRT are been studied.

methods have been recommended inland and applied in measurement, which make the analysis and interpretation of measurement more objective, specific and effective. For example, latent class Tang, X., Ding, S., &Yu, Z. (2012). Application of analysis has been applied in categorical data processing, the result of which is served as the basis of further statistical analysis. For instance, we classification, and analyze discrimination and difficulty in accordance to the difference among the sub-groups (Jiao, Zhang, Guan, & Zhang, 2010). However, compared with other fields of psychology Zheng, X., Gu, H., & Zhu, P. (2009). A Study of the and education, studies on testing have not received

premises when calculating difficulty or reliability enough attention. The review of journals indicates that studies of testing take only 5% of psychology Widespread application and development of and educational study, and they mainly focus on computer technique and statistical measurement scale development and IRT. Furthermore, 76% software have offered necessary technical support scale studies are conducted based on CTT, and for the inland research on measurement and others are based on IRT or GT. Consequently, we statistics theory. Modern measurement theory, with should invest more resources in researches of moderately rapid development in mainland, is testing, as the basic science of psychology and

In conclusion, due to the

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Test Translation. Adaptation and Development: The Situation in Pakistan Sobia Aftab University of Karachi **Pakistan**

have been changed rapidly with regard to test to translation, adaptation, and development. Initially instruments. Hence, there was little innovative work there was lack of empirical researches which may done in the field of scale construction. stem from the fact that there was shortage of questionnaires language (i.e. Urdu). Researchers were using regulatory body and also there was no defined questionnaires that were in English language and copyright policy within Pakistan. So, copyright were developed in western culture/countries. With violation was very common and some researchers the passage of time, researchers have started were translating and adapting research instruments realizing that tests standardized in one culture without taking permissions from concerned authors cannot be applied or predict anything with same and publishers. The reason was long procedural accuracy to another culture. Epidemiological studies requirements to take permission to use scales from have emphasized upon the significance of using foreign publishers and the lack of resources to research tools in studies in one's own native purchase instruments and questionnaires from language. Others have also implications of translations of instruments into one's bearable for everyone. own native language, For instance, Johansone and Malak (2007), have suggested that it is very Commission (HEC) tried to create awareness essential that every culture has its own translated or among people by introducing the copyright and adapted or developed scales in local languages to plagiarism policy following the conduct studies, so that internationally comparable guidelines. Initially, the researchers didn't accept brilliant quality studies could be generated this reform but gradually the acceptance among Likewise, the importance of translation and research community is developed. Now all these adaptation studies is also stressed by Milton (2009). policies are the part of the curriculum in Higher

have turned towards the translation, adaptation, and another positive step was taken to upgrade fair validation processes of the western instruments to testing and research situation in Pakistan and to make their use possible within our culture. Several make it equivalent to international standards i.e. the research tools were either translated or adapted to President of Pakistan signed a Copyright Ordinance assess various areas including, psychological, 2012 which specifies punishments for different types social, behavioral, emotional, etc. Examples of few of copyright violation. These reforms have created of translated and adapted research tools include: positive changes and now construction/development Culture Free Self-Esteem Inventories-3 (Imran, of research tools is also receiving increased 2012), State Self-Esteem Scale (Aslam, 2012), research attention. In order to avoid the long Rosenberg Self-Esteem Scale (Sardar, 2000), procedures to take permission to translate or adapt Paranoia Scale (Kamrani & Ali, 2010) Perceived scales and unbearable cost to purchase these, Social Self-Efficacy Scale (Riaz, Yasien, & Khanam, researchers in Pakistan prefer to develop research 2011), Social Provision Scale (Rizwan & Syed, tools within their own cultural context following 2010), Interaction Anxious Scale (Riaz & Bano, American Psychological Association (APA) and 2011), etc.

Even so, epidemiological studies have Another psychological constructs vary from one culture to and research in Pakistan. another i.e., a construct perceived in one culture

variate Generalizability Theory. Psychological may not be perceived in the same manner in another culture. It is a fact that accurate measurement of any construct depends on the excellence and cultural relevance of measurement tools. Nevertheless, often in various situations, this is not possible to develop native scale. The reason may be that the test development requires investment of time and money and expertise also. Hence, because of lack of assets In Pakistan, in the last few years the trends and somehow talent also the researchers preferred translate and adapt western research

> Another reason to prefer translation and /instruments/tests in National adaptation of tools was so far, there was no stressed the foreign publishers; the cost of which was not

However, in 2007 Higher Consequently, the researchers in Pakistan Education Studies in Pakistan. More recently International Test Commission (ITC) guidelines. positive step taken by Pakistan focused on the cultural relevance and clinical Psychological Association (PPA) to strengthen the usefulness of translation of western scales into non-research and testing situation in Pakistan is the western languages. This translation is to be an formation of sub-divisions, including, Ethics and interim until the equivalents of such instruments are Research Development. Hence, these steps will not developed indigenously (as cited in Khan, 1998). help in reducing the rate of plagiarism and copyright understanding of different violation but also will strengthen the status of testing

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Performance in Malawi Ella Banda Malawi

concern and debate over the past few years. The Aslam, S. (2012). Urdu Adaptation and Validation of Science and Technology policy for Malawi (2001) State Self Esteem Scale in Young Adults. acknowledges that although 52% of the Malawi Unpublished M. Phil Thesis. Institute of Clinical population is female, the participation in and utilization of Science and Technology by women Imran, H. (2012). Self-Esteem as a function of has not received the attention it deserves. Efforts gender and socio-economic status and its have been made to encourage girls' enrollment and relationship with academic achievement in participation in the sciences both by the children: Use of CFSEI-3 with Urdu Adaptation. government and the private sector. In 1986 a Unpublished PhD Dissertation. Institute of National Commission on Women in development Clinical Psychology, University of Karachi, was set up with the aim of coming up with strategies that would help change the attitudes of Johanson, I., & Malak, B. (2007). Translation and teachers, parents and the community at large about National Adaptations of TIMSS 2007 girls education and motivate girls to study Assessment and Questionnaires. Times and Mathematics and Science subjects (Kadzamira, Pirls International Study Center, Lynch School of 1986). Female scientists and educationists are also actively involved in highlighting the gender Kamrani, F., & Ali, U. (2011). Urdu Translation and disparities in the Science and Technology Adaptation of Fenigstein Paranoia Scale. disciplines with the view to influence policy

This paper discusses the impact of such S. (1998). *Moderator Variables in* interventions in closing the gap in the performance Vulnerability to Anxiety: Social Support and of girls in mathematics and science. This is done by Resilience. Unpublished PhD Dissertation, identifying the extent and prevalence of differences Institute of Clinical Psychology, University of in performance between girls and boys in relation to subject areas and type of school.

Aims - The purpose of the study was to find out Studies. Intercultural Studies Groups In Pym, A. if there are any significant differences in & Perekrestenko, A. (eds) Translation Research performance among girls and boys from the different school categories in science and mathematics at MSCE (i.e. senior secondary school) level.

> Participants - Scores of all internal candidates in 2004 MSCE were used. The scores were for Science. Performances of girls from three categories of secondary schools were compared. These were Community day (CDSS), private (PS) and conventional secondary school (CSS).

Procedure - The scores of both boys and girls and Psychometric Properties of Social Provision from the three types of schools were extracted and compared using t-tests. Cohen D statistic was used to determine the effect size. Cohen D value of 0.2 is said to be small, of 0.5 is said to be moderate and of 0.8 is said to be large (Howell, 2002). The null self-esteem and locus of control in male and hypothesis was that there would be no difference between the mean scores of the candidates from

Girls from the Conventional schools are doing better in all the science subjects while those from CDSS are doing worse in all Gender Differences in Mathematics and Science subjects. A major discrepancy is observed in Science. The Physical pattern performance of boys across the school types is similar to that of girls in that boys from CDSS perform worse than those from the other schools The difference in levels of achievement while boys from conventional schools are between boys and girls in mathematics and science performing better than the rest. The differences is an issue that has generated a great deal of are however larger for girls than for boys.

Differences in performance between boys and girls within a school are generally moderate except in Physical science. The achievement gaps are relatively higher between boys and girls in the CDSS's in all the subjects. One explanation of this observation could be the effect of the girls' attitude, motivation and self perception in relation to these subjects. Studies have shown that girls do not see the usefulness of mathematics and science for their future life and are therefore not motivated to work hard in these subjects. This may be true for the girls in these CDSS's because schools qualified characterized by mostly under teachers, inadequate resources, and larger proportions of students from low socio-economic status. The conventional schools however are relatively better equipped and have more qualified teachers than the CDSS's. The private schools are mixed in terms of resources and teacher qualifications. There is strona relationship between the characteristics of a particular school and achievement. This could also explain the relatively low performance of all students in the CDSS's considering their poor characteristics.

Most of the students who go to the conventional schools are those that did well at the PSLCE i.e the cream, while the rest are selected for CDSS's and those that can afford to pay higher school fees go to the private schools. Ideally the students from the CDSS's are the ones that would require more resources and increased efforts by the government and the NGO's to motivate and help them to catch up with their counter parts in the conventional schools.

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The Structural Validity of the Inductive Reasoning Developmental Test for the Measurement of Developmental Stages

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The Inductive Reasoning Developmental are Test - IRTD (Gomes & Golino, 2009) is a penciland-paper instrument designed to assess developmentally sequenced and hierarchically organized inductive reasoning. The sequence was constructed based on the Model of Hierarchical Complexity (Commons, Trudeau, Stein, Richards, & Krause, 1998; Commons & Pekker, 2008). The MHC is a general measurement theory, and as such is part of the normal Mathematical Theory of Measurement (Krantz, Luce, Suppes, & Tversky, 1971) applied to the phenomenon of difficulty. Commons and Pekker (2008) demonstrated, in axiomatic terms, that task difficulty or complexity, beyond other sources, increases in two ways: horizontally and vertically. The former refers to the accumulation of informational bits necessary to successfully complete a task (Commons, 2008), e.g. 5 + 6 + 7 is less complex than 5 + 6 + 7 + 8, because the first differs from the second in the number of times addition was executed, and does not differ in the organization of the addition itself; that is, both have the same hierarchical (or vertical) complexity. Vertical complexity. or hierarchical complexity, refers to the organization of information in the form of action in two or more subtasks, in a coordinated way. A good example of vertical complexity is the distributive property, that requires the two actions of addition and multiplication to be performed in a certain order, thus, coordinated.

National Examinations brated tests for developmental stage identification requires a specific design that involves: 1) grouping items with same hierarchical complexity $[h(i_1) = h(i_2)]$ and $[h(i_1)] = h(i_2) = h(i_3) = \dots h(i_n)]$ within stages; and 2) using items with increasing hierarchical complexity $[h(Stage\ 1) < h(Stage\ 2) < h(Stage\ 3) < \dots h(Stage\ k)]$ between stages. The first deals with item or task equivalence, important in order to avoid the elaboration of an anomalous scale that confuses its analysis (Fischer & Rose, 1999). The second makes possible the identification of discontinuous, stage-like development, with gaps between different orders.

The IRDT has eight items specifically designed to identify each stage, covering seven stages (from Pre-operational or Single Representations to Metasystematic or Single Principles) in a total of 56 items. Each item is composed of four letters, or se-

quence of letters, with a specific rule (correct items), References plus one letter or sequence with a different rule Commons, M. L. & Pekker, A. (2008). Presenting the (exception). The task is to discover which letter or sequence is the exception. The IRTD was administered to a convenience sample composed by 1,193 Brazilian Commons, M., Trudeau, E., Stein, S., Richards, F., & people (53% women, 47% men) aged between 6 to 86 years (M = 15.02, SD = 12.30). The sample was intentionally broad, and had a distribution of 34.20% from 6 to 11 years, 53.50% from 12 to 18 years, 6.40% from Dawson, T. L., Xie, Y., & Wilson, M. (2003). Domain-19 to 49 years, and 5.90% from 50 to 86 years. All the participants were from the city of Belo Horizonte, state of Minas Gerais. Brazil.

mous Rasch Model is used, using the software Winsteps 3.70.1 (Linacre, 2012). It produces linear measures, gives estimates of precision, allows the detection of lack of fit or misfit, enables the parameters' separation of the object being measured and of the measurement instrument (Panayides, Robinson & Tymms, 2010) and enables the verification of hierarchical sequences of both item and person, being especially Linacre, J. M. (2012). Winsteps® Rasch measurement developmental stage identification to (Dawson, Xie & Wilson, 2003). After verifying the fit to Panayides, P., Robinson, C., & Tymms, P. (2010). The the dichotomous Rasch Model, the structure of the items' difficulties is visually verified through the Wright (variable) map. It is expected that items constructed to identify a particular stage form a well-defined cluster. Each cluster of items should be separated by a gap. The clusters visually verified can be checked analytically through hidden markov model, using the depmixS4 package of the R software.

The result of the Rasch analysis shows a reliability of .99 for the 56 items and an infit meansquare mean of .90 (SD = .23), having 75% of the items ranging its infit from .70 to 1.20, only 3 items with an infit 302.14).

the structure of the items' difficulties, and confirmed dardized psychological tests. through latent class analysis. So, it is possible to empirically verify developmental stages using the MHC as use of psychological tests for the assessment of psya framework for constructing instruments, applying chopathology in Bulgaria. Bulgaria, a country in Eastcontemporary psychometric models that properly deals ern Europe, joined the European Union (EU) in 2007. with the issues involved in the measurement of cogni- As a former communist country and a geographical tive abilities, and employing a robust method to verify crossroad of the East and the West throughout the stages in the structure of the items.

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In the first part of the data analysis the dichoto- Gomes, C.M.A., & Golino, H.F. (2009). Estudo exploratório sobre o Teste de Desenvolvimento do Raciocinio Indutivo (TDRI). In D. Colinvaux. Anais do VII Congresso Brasileiro de Psicologia do Desenvolvimento: Desenvolvimento e Direitos Humananos. (pp. 77-79). Rio de Janeiro: UERJ. Available in http://www.abpd.psc.br/files/ congressosAnteriores/AnaisVIICBPD.pdf

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Current Developments of Clinical Assessment in Bulgaria Zornitsa Kalibatseva Michigan State University **United States**

Clinical psychology is a relatively new discipline less than .55 and no item with infit greater than 1.35. in Bulgaria that emerged in the last five decades. The The person reliability was .80. The principal contrast profession "clinical psychologist" became established showed that the raw variance explained by measures in the early 1990s. Currently, degrees in clinical psy-(modeled) is of 73.2%, and that the unexplained vari- chology are offered only at the Master's level. Yet, the ance in the first contrast (modeled) is 6.9%, suggest-field of clinical psychology may be disregarded more ing that the instrument can be thought of as unidimen- than other psychology disciplines because it is not sional. The items' difficulties presented 7 clusters with listed as one of the studied areas by the Department of gaps between then, as visually verified by the Wright Psychology in the Institute for Population and Human map. The clusters were confirmed by the hidden Studies in Bulgaria. Clinical assessment and psychomarkov model, which presented a solution with 7 therapy are central components of clinical psychology. classes (log Lik.= -26.28, df=62, AIC: 176.57, BIC: Clinical assessment (also called "psychodiagnostics" or "psychological evaluation") is an emerging field in The IRDT presented a good fit to the dichoto- Bulgaria and refers to the process of testing with differmous Rasch Model, and a high reliability for the items, ent techniques to understand a person's behavior, perand a moderately high reliability for the people meas- sonality, and abilities. It is most often conducted with ured. The hypothesized stages were all identified in the use of a clinical interview, observation, and stan-

> The aim of this paper is to discuss the current centuries, Bulgaria has increasingly received western

by a wide range of historical, sociocultural, and eco- ognize that current views of psychiatric nosology nomic factors (Tomov, Mladenova, Lazarova, Soti- may be biased towards presenting the etiology, exrov, & Okoliyski, 2004). The slow economy and pression, diagnosis, and treatment of mental disorhigher rates of poverty, crime, and homelessness ders in ways that are mostly congruent with Western (as compared to 1989) have been associated with culture. mental health problems and an increased need for in tracking progress.

interview the structured clinical instrument followed the guidelines of the WHO. developed. First, the original English version was translated by ligions, professions, and income that are specific to they undertake. Bulgaria. Fourth, the instrument was piloted with 50 respondents and approved for further use (Tomov et References al., 2008). The described adaptation ensured lin- Institute for Population and Human Studies (2012). guistic and possibly conceptual equivalence of the instrument. However, no information has been provided about the metric and functional equivalence, which are important components of establishing International Test Commission (2010). International cross-cultural measurement invariance (Leong, Leung, & Cheung, 2010).

Additionally, it is important to note that the contemporary comprehension of psychopathology as described in ICD-10 and DSM-IV reflects the Leong, F. T. L., Leung, K., & Cheung, F. M. (2010).

influences and is an emerging democracy since views of health and disease that are predominantly 1989. Mental health in Bulgaria has been influenced held within Western culture. Thus, it is critical to rec-

The overall trends regarding the standards psychological services. Yet, the previous policy ne- for creating and adapting existing psychological glected mental health for decades and only recently tests are very promising. During the 3rd National the country's Mental Health Programme was de- Congress of Psychology in Bulgaria in 2005, a vised (Tomov et al., 2004). Still, there was little epi- round table discussion generated several objectives demiological data on which to base the pro- for the future use and adaptation of psychological gramme's objectives (Tomov et al.). Specifically, tests. Notably, the standards of the International one of the identified issues is the lack of process Test Commission (2010) and the American Psychoand outcome indicators to monitor mental health logical Association for test adaptation were disservice effectiveness. One possibility to address this cussed. Subsequently, the National Test Commisissue is to incorporate validated measures of psy-sion (NTC) under the auspices of the Bulgarian Psychopathology that would assist health professionals chological Society was created. Its mission and role include preparing and providing information about The first national representative psychiatric the quality of psychological tests in Bulgaria, the epidemiological survey (EPIBUL) in Bulgaria was qualifications for administering such tests, the stanconducted between 2002 and 2006. EPIBUL is part dards for creating and adapting tests, the competenof the World Mental Health Initiative of the World cies necessary for professionals to use and interpret Health Organization. The instrument for this survey the tests, and the standards for certification pro-CIDI grams (NTC, 2012). Additionally, there is a registry (Composite International Diagnostic Interview) of existing adapted psychological tests in Bulgaria. WMH 3.0 (Tomov et al., 2008). The CIDI included Some of the tests used for clinical assessment that questions that inform the diagnoses of psychological have been adapted include the Minnesota Multiphadisorders from the International Classification of Dissic Personality Inventory – 2 (MMPI-2) and the State eases (ICD-10) and the Diagnostic and Statistical Trait Anxiety Inventory (STAI-Y). Three original tests Manual of Mental Disorders (DSM-IV). The prepara- that measure aggression and anxiety among adotion and adaptation of the Bulgarian version of the lescents and elementary school students have been

The field of clinical assessment has been a professional Bulgarian translator, who consulted progressing slowly and various researchers and with psychiatry experts. Second, selected parts of practitioners have developed original tests or used the instrument were back-translated to English the ITC guidelines to or translate and adapt existing Third, discrepancies were identified and changes tests for research and clinical practice. However, were made to accommodate for specific expres- there is a dearth of instruments that have been used sions in Bulgarian. In addition, jargon related to psy- in the field and there is a need to develop more chiatric disorders in Bulgarian was removed. The emic-derived clinical assessment tools. Specifically, final wording was approved by several expert Bul- original personality and mental health instruments garian psychiatrists. A different panel of psychia- may be important constructs to explore further. Also, trists evaluated the adequacy of the language and researchers are strongly encouraged to describe in found information about particular medications, re- detail any adaptations of clinical instruments that

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The Philippine Educational Measurement and **Evaluation Association (PEMEA)** Ronnel B. King The University of Hong Kong **Hong Kong**

ternational Test Commission.

PEMEA aims to achieve the following goals:

- through appropriate and proper assessment
- Provide technical assistance to educational institutions and process of attaining standards
- Enhance and maintain the proper practice of measurement and evaluation in both local and international level
- Enrich the theory, practice and research in evaluation and measurement in the Philippines

Publications

The Educational Measurement and Evaluation Review (EMER) (ISSN: 2094-5876) is the official publication of the association. The journal publishes "scholarly reports about contemporary theory and practice in the field of education and social science highlights measurement, assessment, and evaluation. It welcomes articles that are about test and scale development, quantitative models of a construct, evaluation studies, best practices in evaluation, issues in assessment, contemporary approaches in educational psychological and

other studies with direct Diversity and Ethnic Minority Psychology, 16(4), science, and related fields." It is published annually and abstracted in the Asian Education Index, Social National Test Committee of the Bulgarian Psychologi- Science Research Network, Google Scholar, Open-J Gate, and New Jour. Thus far, two issues have been released covering a wide range of topics in Tomov, T., Hinkov, H., Zarkov, Z., Mladenova, M., Va- measurement and evaluation. The editor-in-chief is Prof. Rose Marie Salazar-Clemaña from De La Salle National representative epidemiological study of University, Manila. The executive editor is Dr. Carlo Magno also from De La Salle University, Manila. (2002-2006): Instruments, methodology, field pro- Associate editors include Dr. Richard Gonazales and

Another publication affiliated to the association is http://www.proecta.org/download/ the Assessment Handbook (ISSN: 2094-1412). This 15, journal is currently abstracted in the Asian Education Index and the Social Science Research Network. The Tomov, T., Mladenova, M., Lazarova, I., Sotirov, V, & journal publishes articles related to assessment, evaluation, measurement, psychometrics, and psyhealth country profile. International Review of Psy- chological testing that have been presented in the National Conference on Educational Measurement and Evaluation. Each issue is usually managed by a guest editor. The managing editors are Dr. Carlo Magno, Laramie Tolentino, Dr. Richard Gonazales, and Belen Chu.

Conferences

The first National Conference on Educational Measurement and Evaluation (NCEME) was held in The Philippine Educational Measurement and August 2008 at the De La Salle College of St. Benilde Evaluation Association (PEMEA) is the premier or- (DLS-CSB). It was organized by the Center for Learnganization dedicated to testing in the Philippines. It ing and Performance Assessment of DLS-CSB. The was inaugurated in August 2008 during the first Na- theme of the conference was "Developing a Culture of tional Conference on Educational Measurement Assessment in Learning Organizations." It was a 2-(NCEME). It is currently an affiliate member of the In- day conference attended by over 300 people. The keynote speaker was Dr. Letticia Asuzano, President of the Asian Psychological Assessment Services Promote standards in various areas of education Corp. A special session was headed by Mr. Neil Pariñas (Special Assistant to the President of DLS-CSB) which discussed the possibility of establishing a professional organization dedicated to educational measurement and evaluation. The intial draft of the constitution and by-laws was also presented and PEMEA was officially inaugurated. The second NCEME was held in 2010 was held on August 2010 in the College of Saint Benilde International Conference Center. The theme was "Educational Assessment in Knowledge Society." The keynote speaker was Dr. Anders Jons-

> In August 2012, PEMEA will be hosting the International Conference on Educational Measurement and Evaluation. The theme is "Educational Assessment in a Multicultural Learning Environment." ITC Council member Dr. Thomas Oakland has been invited as the keynote speaker.

For more on PEMEA visit http://www.pemea.org/

NEWS

Symposium on The assessment and teaching of 21st century skills at the 2012 ITC conference in Amsterdam, the Netherlands

Since 2009 ATC21S has been working with teachers from Australia, Costa Rica, Finland, the Netherlands, Singapore, and the United States to pilot and test an extensive library of innovative resources (lessons, supplemental materials, formative assessments) aimed at assessing and teaching the specific 21st century skills of collaborative problem solving and digital literacy. ATC21S is a global private/public partnership founded and funded by Cisco, Intel and Microsoft. The project headquarters are at the University of Melbourne, directed by Professor Patrick Griffin, Associate Dean in the Melbourne Graduate School of Education. Upon completion in July 2012, the project will release its cutting-edge assessment tools and the accompanying teaching, technology, and policy-related materials.

The ATC21S symposium is scheduled for Thursday, July 5th, from 10.30-12.00. In addition, the project team is organizing a *launch event* for delegates during the conference. The ATC21S team will:

Demonstrate the cloud-based tasks commissioned for the project in the areas of collaborative problem solving (CPS) and ICT Digital Literacy. These tasks illustrate the state of the art in the assessment of collaborative problem solving and the assessment of learning through digital networks.

Show the reports that the ATC21S CPS and ICT Digital Literacy tasks can generate. These reports will be invaluable to schools, teachers, and individual students in assessing and tracking student proficiency in 21st century skills such as CPS and ICT Digital Literacy.

Explain how the ATC21S assessment tasks can be accessed and used once they are officially released in July 2012.

The original white papers commissioned for ATC21S can be downloaded from the ATC21S website and an edited, peer reviewed volume of the white papers is available from Springer Science + Business Media.

Further information

The project http://atc21s.org/

The project white papers http://atc21s.org/index.php/ resources/white-papers/

The peer reviewed volume http://www.springer.com/ education+%26+language/book/978-94-007-2323-8

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