



Illinois Mathematics and Science Academy

Report of the IMSA Emeriti

July – December 2012

“...continuing to advance IMSA in significant ways...”

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DR. DAVID WORKMAN, FACULTY EMERITUS 1986-2007

Sigma Xi, The Scientific Research Society and AAPT, American Association of Physics Teachers

Dr. David Workman spent six weeks in Thailand sharing IMSA teaching and learning concepts with Thai teachers in three different contexts:

1. He presented a weeklong workshop on inquiry and problem-based learning to 29 teachers at the Institute for the Promotion of Teaching of Science and Technology (IPST) in Bangkok. IPST is the agency that is responsible for developing curriculum for schools throughout Thailand.
2. He spent two weeks at the Mahidol Wittayanusorn School (MWIT) in Salaya where he worked with teachers from seven different departments on strategies for including more inquiry methods their methodology. MWIT is a national science and mathematics school that admits students from all over Thailand.
3. During his last two weeks in Thailand Dr. Workman visited the Princess Chulaporn schools in Petchburi and Lopburi where he observed classes, taught a demonstration class, and presented a lecture on the inquiry methods he used at IMSA. There are twelve Chulaporn schools throughout Thailand. They were recently designated as Special Science Schools and were partnered with a sister science school in Japan. Dr. Workman expects to help facilitate this cooperative venture in his future visits to Thailand.



At IMSA Dr. Workman is serving as the *solid state physics tutor* for a group of three IMSA students. These students are also working with Dr. Max McGee on a collaborative research project with students at the National Junior College of Singapore.

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FOUNDING PRESIDENT AND PRESIDENT EMERITA: STEPHANIE PACE MARSHALL, PH.D.

Strategic Advancement, Positioning, & Promotion of IMSA, IMSA Alumni, Students, & Staff

The role of Stephanie Pace Marshall, as President Emerita, is to “Bring IMSA & Its Work with Her”

This work is supported in part by the Discretionary Fund established by the IMSA Fund for the Emerita President.

FOUR AREAS OF STRATEGIC ADVANCEMENT AND POSITIONING: (1) promote and expand awareness and knowledge of IMSA through meetings, targeted conversations and/or presentations with innovative and influential thought and policy leaders to expand their knowledge of IMSA’s work and strategic initiatives; (2) identify and promote opportunities to explore and create potential connections, partnerships and/or alliances focused on innovation, entrepreneurship and talent development; (3) seed, advance and open doors for IMSA’s proactive leadership, “presence & voice at the table”; (4) connect IMSA to critical state, national and international networks and leaders.

STRATEGIC INSTITUTIONAL “THINKING AND DESIGNING PARTNER”

IDENTIFICATION, EXPLORATION AND PROMOTION OF INITIATIVES, PARTNERSHIPS AND NETWORKS

CONNECTING IMSA TO TRANSFORMATIVE STATE, NATIONAL AND INTERNATIONAL INITIATIVES

1. Creation of a New “Blended” Global University: Dr. Marshall became a founding trustee of a new “blended” global university that will launch publically in spring 2013. Its initial undergraduate offerings will consist of 22 core courses. A graduate school offering several Master’s degrees and Ph.D. programs has been operational for ten years. The new university will expand to include a comprehensive undergraduate program, MBA program and a law school. The unique competency of this university will be its innovative technology platform, its personalized “blended” learning design (online, in-person and mentored learning experiences), and its “full spectrum transformational curriculum.” Several global institutions for advanced study will be physically situated. The University’s mission is to design an educational program that wisely develops global change agents. A potential future initiative is the creation of a global high school, and this would create a partnership opportunity for IMSA.
2. Re-imagining the 21st Century University: The University of Texas, Brownsville, Texas Dr. Marshall joined the design team of Cannon Design/Third Teacher (an international design firm, based in Chicago) as a lead advisor and program designer for their new initiative with the University of Texas at Brownsville. The University has a most unique and highly challenging location on the border of the United States and Mexico, and seeks to attract students from both countries. The Board of Regents in Texas approved extensive expansion plans for the University including the building of an additional campus and the acquisition of a medical school. Dr. Marshall is working with The Cannon Design team and the University President and her team on re-imagining the University’s identity—and teaching and learning design. Their commitment is to “bring to life” a new type of educational learning ecosystem that integrates the K-12 system and the University with the community. Innovative STEM learning and teaching offerings will be created in their school of education.
3. The “Aspen Grove Network”—Centers for Inquiry and Imagination created in the spirit of Ubuntu (“we are all connected”), in South Africa: Following a three month “learning journey” to talk with educators in the United States, the United Kingdom and several countries in South Africa, a small cadre of educational visionaries and business leaders in Capetown,

South Africa, invited Dr. Marshall to partner with them in conceiving, designing and creating a global network of “Aspen Grove” Centers beginning with the creation of a prototype “school” on the campus of West Cape University in Capetown. In Dr. Marshall’s book, *The Power To Transform* (2006), she described a new “school” for the future and named it the “Aspen Grove Center for Inquiry and Imagination. In her book, she named one of the purposes of Aspen Grove as “*nurturing the potential of each child to wisely advance the human condition...by developing the capacity of each child to discern meaning from patterns, think systematically, take the long view and act with moral purpose*” (16). Given the enormous educational challenges in South Africa, this deeply resonated. Dr. Marshall is currently in the partnership building phase and will attend meetings in Capetown (February 2013) to build support for the creation of this prototypic learning community. The long-term vision is to begin with a pre-primary, primary program and expand to a high school and then a STEM Academy. South Africa has gone through one of the most dramatic transformations in history, from Apartheid to democracy. Transforming their educational system is their moral imperative now.

4. WIGUP (When I Grow Up, created by Ballestra TV) <http://www.ballestra.tv/site/index.htm> Dr. Marshall is an advisor to this Canadian educational initiative that uses collaborative technology to engage students (9-14) in discovering their gifts and passions. Balestra Productions, Inc. is an independent television and New Media production company. Well-established, but uncommon in the television industry, Balestra creates intelligent, fascinating and inspiring products for viewers aged 7-18.
5. CIE Learning: Context is Everything: Dr. Marshall was invited by Sheree Speakman (founder and CEO, CIE Learning) to become an advisor to a new start-up company for learning. CIE Learning is a non-profit company offering The Learning Pass, a mobile web application for learners to build a lifelong record of learning and “maker” activities. Its goal is to expand learning and social capital across neighborhoods worldwide.
6. Ideas Salon Re-Discovering Learning (December 13-16, 2012, San Martin, California) Dr. Marshall was invited to participate in an Ideas Salon Design meeting with the University of Toronto, to re-imagine the future of R & D and medical education and its impact on improving health care.

Clinton Global Initiative <http://www.clintonglobalinitiative.org/ourmeetings/2012/> Dr. Marshall attended the 2012 annual meeting for members of the Clinton Global Initiative (CGI) in New York City (September 23-25, 2012). The agenda was organized around the theme of *Designing for Impact* and presentations focused on two questions: How can we design our world to create more opportunity and more equality? How are we designing our lives, our environments, and the global systems we employ in order to impact the challenges at hand? CGI’s annual meeting brings together heads of state, government and business leaders, scholars and NGO directors to analyze pressing global challenges, discuss the most effective solutions, and build lasting partnerships that enable them to create positive social change. Dr. Marshall’s commitment over the past four years has been to help Free The Children build and open the first residential high school for girls in the Masai Mara in Kenya. It opened in January 2011 and is named Kisaruni All Girls Secondary School (place of peace). <http://www.freethechildren.com/international-programming/where-we-work/kenya/kisaruni-all-girls-secondary-school/>

Free The Children, Me To We Day <http://www.weday.com/> Dr. Marshall was invited by Free The Children co-founders to attend the 6th annual Free The Children’s We Day in Toronto along with 20,000 Canadian student leaders (elementary-high school) from 1,500 schools. Free The Children brings together Nobel Peace Laureates, world-renowned social activists, and Golden Globe, Grammy and JUNO award winners to celebrate young peoples’ actions toward positive social change. Free The Children was founded with the understanding that by awakening the

spirit of activism in young people, anything is possible—injustices can be stopped, our local and global communities can be transformed for the better, and hope for the future can be sustained. Based on the belief that young people can create change, the We Day movement was born and has become a movement of our time that inspires thousands of youth dedicated to social change. Free The Children is expanding into the United States and Dr. Marshall will be working with the United States leadership team on the strategy for expanding this movement. IMSA students have been involved with Free The Children initiatives since 1997. They will now have an opportunity to participate in We Day-U.S.A.

KEYNOTE SPEAKER AND PRESENTER FOR CONFERENCES, SYMPOSIA AND SPECIAL EVENTS

Manitoba Association of School Superintendents and Manitoba Department of Education, Winnipeg, Manitoba. Dr. Marshall was invited to give a keynote speech in Winnipeg, Manitoba at the annual conference of the Manitoba Association of School Superintendents (11/15/12). The conference's theme was *Sustainability: Education for ACTION*, and the title of Dr. Marshall's remarks was "Nurturing a New Generation of Earth and World Citizens, by Design." IMSA Charter Class member, Terri Willard, was a part of the conference planning group that invited Dr. Marshall to keynote.

EDUCATIONAL AND BUSINESS CONSULTATIONS

JTM Concepts Inc. and Classroom³® (Classroom Cubed) (Rock Island, IL): Founders of JTM Concepts met with Dr. Marshall to advise them on their educational product (Class-room³® or Classroom Cubed). Classroom³® promotes the use of 3D applications to enhance the learning experience by providing the students with a clear and complete visualization of difficult concepts, especially in science and mathematics.

Clareo Partners (Chicago): Dr. Marshall was asked to advise on the design of school kitchens for the future. Nutrition, wellness and well-being are top of mind in designing healthy, holistic environments. Designers are seeking ways to integrate the "school kitchen" into the academic program and life of the community.

Insight Labs (Chicago): Dr. Marshall was interviewed by Insight Labs on the role and power of storytelling for leaders. Insight Labs is seeking to learn about and understand the significance of narrative in creating dynamic cultures of learning.

APPOINTMENTS: Dr. Marshall was appointed in December by Illinois Governor Pat Quinn as a general trustee of The Lincoln Academy of Illinois. Dr. Marshall was inducted into the Lincoln Academy as a Lincoln Laureate in 2005.

SPECIAL EVENTS

- The Chicago Network annual meeting (9/18/12)
- Chicagoland Entrepreneurial Center 5th Annual Momentum Awards Dinner (10/24/12)
Invited by Chicago Entrepreneurial Center CEO, Kevin Willer, as his guest.
- The Executives Club of Chicago, meeting for members with guest speaker David Brooks of the *New York Times* (10/31/12)
- Cleveland Conference (12/5/12-12/7/12) Invitation only conference of national educational leaders [members]. Dr. Marshall met with Michael Kirst, president of the California State Board of Education and the founders and management teams of several Silicon Valley educational start-ups.

ATTRACTING AND SECURING FINANCIAL AND HUMAN RESOURCES TO CREATE AND ADVANCE STRATEGIC INITIATIVES: PARTICIPATION IN IMSA AND IMSA FUND EVENTS

Since July, Dr. Marshall has secured close to \$200,000 in IMSA Fund contributions.

She attended IMSA Alumni Volunteer Recognition Dinner (7/20/12); IMSA Alumni Luncheon (7/21/12); IMSA Alumni Awards Dinner (7/21/12); IMSA Community Learning Day (8/15/12); IMSA Great Minds Program featuring IMSA alumni presentations on engineering (10/19/12); IMSA Annual Holiday Luncheon (12/21/12) and other IMSA/IMSA Fund events and meetings:

- As the Fund Board's liaison, Dr. Marshall attended IMSA Board of Trustees meetings (7/18/12, 9/10/12)
- Melody Hobson (president, Ariel Capital). Discussed IMSA Fund Board development and recruitment and alumni development strategy (7/11/12)
- Britta McKenna, Cathy Veal, Jim Gerry and Carl Heine (7/18/12) to generate ideas for marketing the IMSA classroom at 1871
- Participated in meeting with Greg Simoncini and Cathy Veal to introduce Irene Hrusovsky to IMSA; Ms. Hrusovsky's interest lies in building the pipeline/increasing the number of women scientists and STEM-related business leaders and entrepreneurs (7/20/12).
- Linda Chapa LaVia to discuss early childhood education initiatives (7/23/12)
- King Harris Luncheon hosted by King Harris. Guests included Rachel Graham, Liz Lefkovsky, Michael Keiser, Paul Finnegan and David Vitale. Attendees from IMSA: Drs. Marshall and McGee, Paul Milano and Cathy Veal (9/18/12). At the IMSA25 Gala, Dr. Marshall asked Mr. Harris if he would host a luncheon for IMSA to introduce us to Chicago philanthropists who might commit to IMSA's work given their philanthropic interests
- Dedication Ceremony of the Gail Lieberman Reflective Memorial Garden (9/10/12)
- "E-learning: Best Practices, Tools and Resources" workshop conducted by Yusra Visser (9/12/12)
- IAA-IMSA Fund Alumni Relations, meeting requested by alum Winn Wasson and also attended by John Hoesley (9/13/12)
- IMSA Fund Board dinner and meeting (10/17/12)
- Initiated the conversation and exploration of sustainable financial business models (10/30/12) for IMSA for the future; initiated the meeting held at John Hoesley's office at Silicon Valley Bank and attended by Sheila Griffin, Luis Nunez, Jay Budzik, Kapil Chaudhary, Sam Yagan, Lance Pressl, Max McGee, Cathy Veal, Paul Milano, Jim Gerry, Pat Furlong and Michael Suh. Cathy Veal is the IMSA point person with whom Dr. Marshall is working on this critical initiative.
- IMSA Bay Area Alumni Event, Palo Alto, California (12/5/12)
- Dr. Marshall invited Cathy Veal to attend a meeting with Ellen Carnahan (principal, Machrie Enterprises LLC) to discuss IMSA Fund Board development and Advancement strategy (12/19/12)
- Dr. Marshall invited Cathy Veal to attend a meeting with her to discuss IMSA Fund Board development and Advancement strategy with Chip Fry (director, Floyd A. Fry Foundation, Chicago) (12/19/12)