

NOTICIAS de TODOS
News from TODOS: Mathematics for ALL
Newsletter publication funding provided by
Pearson Education

WINTER 2013 Special, Volume 9, Number 2

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TODOS Welcomes You to Its First Conference

TODOS 2014

June 26-28

Beyond Awareness: Equity, Access and Achievement for ALL

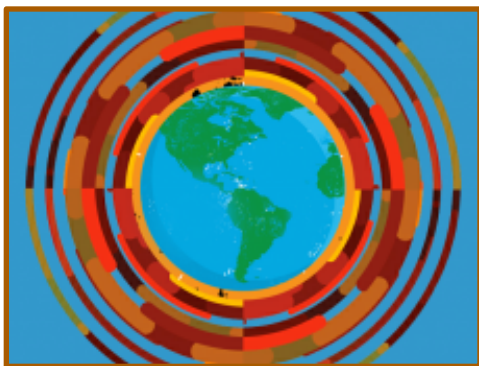
<http://www.todos-math.org/todosconference2014>

**Sheraton Wild Horse Pass Resort and Spa On the
Gila River Indian Community**

5594 W Wild Horse Pass Blvd.

<http://www.gilariver.org>

Chandler, AZ 85226 (in the Phoenix Metro Area)



Inspiring
Keynote Speakers
**Kathryn Chval and
Rochelle Gutiérrez**
(see p. 4)



TODOS Mission Statement

The mission of *TODOS: Mathematics for ALL* is to advocate for an equitable and high quality mathematics education for all students—in particular, Latina/o students.

See all the information about the Conference, including registration, hotel reservations, and the exciting variety of professional development opportunities for attendees on pages 3 to 5.

Get updates at

<http://www.todos-math.org/todosconference2014>

News From the President

By Don Balka

Moving Forward Clocks are ticking down!



Our first-ever conference

TODOS 2014: Beyond Awareness

– Equity, Access, and Achievement for All

will be held on June 26 – 28, 2014, at the Sheraton Wild Horse Pass Resort and Spa, a short distance from the Phoenix, AZ airport. Plan to attend! Conference Co-Chairs Nora Ramirez and Melissa Hosten, and Program Chair Jenny Bay-Williams have been busy in planning this event for several months. TODOS applied for and received a \$3000 grant from NCTM Affiliate Services/Mathematics Education Trust to offer six scholarships for classroom teachers to attend the conference. Pages 3 to 5 of this newsletter includes the information about this exciting conference. Keep looking at the TODOS website for updates.

The Board took on a major task to revise the bylaws and revisit the Mission Statement and Goals of TODOS. Our organization has grown in so many ways during the last ten years. Consequently, many sections of the bylaws are outdated or inappropriate for our current operations. This particular task is not complete. However, the Board has approved revisions to the Mission Statement and added a fifth goal.

MISSION

The mission of TODOS: Mathematics for ALL is to advocate for equity and high quality mathematics education for all students — in particular, Latina/o students.

GOAL 5

To inform families about educational policies and learning strategies that will enable their children to become mathematically proficient.

With the new goal in place, I have begun to appoint members to a Family Resources Task Force to explore how TODOS will meet this goal through actions. Diane Kinch, Marta Civil, Harriet Haynes, and Robert Gyles have offered to serve on the Task Force. One of the initial suggestions is a bilingual directory of STEM resources directed toward parents. Dr. Gyles' institution, Hunter College/CUNY, is interested in publishing such a directory with TODOS preparing the information.

During the fall months, the TODOS Board again submitted a resolution to the NCTM Delegate Assembly, recommending that NCTM change our designation from “affiliate at large” to “national/international affiliate.” For most NCTM members, the title “affiliate at large” has little meaning. There are eleven NCTM national/international affiliates, such as NCSM, WME, and BBA. We received favorable responses for this change from other national/international affiliates. Instead of going to the Delegate Assembly in New Orleans, the resolution went to the NCTM Board and we are awaiting the decision.

In November, I completed my term as Immediate Past President of School Science and Mathematics Association at the annual convention in San Antonio. SSMA is the oldest professional organization (1901) for mathematics and science educators in the United States. The program this year included numerous sessions dealing with ELL. As a result, I proposed to our Board that TODOS offer a reciprocity agreement with SSMA, whereby each organization receives a complimentary exhibit space at their respective conferences, the presidents are offered a session at conferences, and web-links will be shared. The Board approved the agreement, and we are now awaiting a decision from the SSMA Board. We have similar arrangements with NCSM, AMTE, and BBA.

Volume 5 of our journal *Teaching for Excellence and Equity in Mathematics (TEEM)* was completed this past year and is available on the TODOS website. A new monograph, *Embracing Resources of Children, Families, Communities and Cultures in Mathematics Learning*, has been completed and we are in the process of finalizing page layouts.

Balka, continued on page 7

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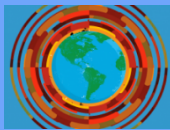
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Impact, Investigate, Innovate, & Ignite!

TODOS 2014 will provide attendees with an opportunity to participate in a learning community that will consider the mathematics learning needs of all students.

Sheraton Wild Horse Pass Resort And Spa, Phoenix Metro Area

Conference Overview



Beyond Awareness: Equity, Access, and Achievement for All

TODOS 2014
June 26th – June 28th



Impact

Six Impact Sessions presented by expert national speakers will facilitate your building a foundation on the key ideas of the conference: Leadership, Technology, and the Common Core.

Investigate

Deepen your understanding of the themes of Leadership, Technology, and the Common Core by exploring strategies that will impact your practice, by actively participating in the Investigate Sessions.

Innovate & Ignite

The 15-minute Innovate Sessions will provide effective strategies and resources for PreK-12 classroom. The 5-minute face-paced, quick share Ignite sessions will stimulate your own ideas.

Moving Beyond Awareness

Reflect on the conference and complete your learning experience by attending one of the *Kay Gilliland Equity Workshop Series* that will be presented by past, current, and President elect of TODOS and current president of NCTM.

* Kay Gilliland Equity Workshop Series

Our friend and respected colleague Kay, died on September 10, 2013. The education community has lost a giant. Many of us in the TODOS Community were impacted by her passion for equity for ALL. TODOS will honor Kay as an unyielding champion for equity for all children by offering the *Kay Gilliland Equity Workshop Series* at the TODOS 2014 Conference.



For information about the **Gila River community** and news of the community go to:

<http://www.gilariver.org/> and
<http://www.gilariver.org/index.php/news/>

Thursday, June 26

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

@ 5:00 pm: Welcome, Elder Blessing followed by the **Keynote by Rochelle Gutiérrez**

Friday, June 27

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Impact Sessions - led by John Carter, Sylvia Celedón-Pattichis, Barbara Dougherty, Rick Kitchen, Steve Leinwand, and Laurie Rubel. Attendees will form an **"Impact community"**.

Lunch & Ignite sessions by Harold Asturias, Gloria Brooks-Brown, Kyndall Brown, and Steve Rasmussen.

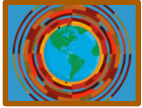
Investigate Sessions
Impact Communities
Student Awards and Reception

Saturday, June 28

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Investigate Sessions
Lunch & Keynote by Kathryn Chval
Investigate Sessions
Innovate Sessions

Kay Gilliland Equity Workshop Series
Presentations will be done by TODOS past Presidents Miriam Leiva, Jose Franco, Nora Ramirez, current President Don Balka, President-Elect Susie Håkansson, and current NCTM President Linda Gojak.
Elder Closing and sharing last thoughts.



Keynote Speakers Kathryn Chval and Rochelle Gutiérrez will encourage attendees to move Beyond Awareness

Kathryn B. Chval is an Associate Professor of Mathematics Education, a Co-Director of the Missouri Center for Mathematics and Science Teacher Education, and current Associate Dean for Academic Affairs at the University of Missouri. She is also the Principal Investigator for the *Facilitating Latinos' Success in Mathematics* Project and Co-Principal Investigator for the *Center for the Study of Mathematics Curriculum and the Researching Science and Mathematics Teacher Learning in Alternative Certification Models* Project. Both projects are funded by the National Science Foundation. Kathryn Chval's session is titled *Positioning Latino English Language Learners for Success: Lessons Learned from Inspirational Teachers*.



Rochelle Gutiérrez is a Professor of Mathematics Education and Curriculum & Instruction, who has been working at the University of Illinois at Urbana-Champaign since 1996. Her research focuses on the structural and pedagogical factors involved in equity for marginalized students, especially black and Latin@ students. She strives to situate teacher practice in a socio-cultural and political context of schooling and the broader society. Rochelle Gutiérrez' session is titled *Teaching in an Era of the Common Core: Why All Mathematics Teachers Need Political Knowledge*.

Registration & Hotel Reservations

NOTE: This is a *pre-registration only* conference
Attendance is limited

Members--\$250 & Non-Members--\$280

For a complete information about **registration and hotel reservations** see

<https://www.starwoodmeeting.com/StarGroupsWeb/booking/reservation?id=1308302340&key=D74D6>



*** TEACHER ATTENDANCE GRANTS ***

The NCTM's Mathematics Education Trust (MET) has awarded funds to TODOS to help K-12 members attend the conference are available. The information about the grants and **application process** is posted at the center of the TODOS website. Further questions about the TODOS/MET scholarship can be directed to **Nora Ramirez** nora.ramirez91@gmail.com.

Working Team of the Conference

Conference Planning Committee

Melissa Hosten and Nora G. Ramirez,
conference Co-chairs
Carol A. Edwards
Florence Glanfield
Susie Håkansson
Bob McDonald

Conference Program Committee

Jennifer Bay-Williams, Chair
Ed Dickey, Conference Advisor

Conference Chairs of the Other Vital Committees

- Linda Fulmore - **Budget**
- Jeannie Toshima - **Exhibits**
- Silvia Llamas-Flores - **Logistics**
- Darcy White and Carol A. Edwards - **Check-in**
- Heather Navarro - **Publicity/Publications**,
- Angela Thompson - **Electronic Registration**,
- Bob McDonald - **Resources**



Members of the Program Committee at the venue. From left to right, Kathryn Chval, Diane Kinch, Tod Shockey, Cathy Kinzer, Jennifer Bay-Williams and Ed Dickey.



TODOS Board Members at the Conference venue in

From left to right:

Seated: Susie Håkansson, Don Balka and Carol A. Edwards.

Standing: Bill Jasper, Maria Torres, Anita Bright, Janie Zimmer, Florence Glanfield, Diane Kinch, Sylvia Celedón-Pattichis, and Linda Fulmore.

Report from the Elections Committee

On behalf of the Election Committee, Ed Dickey, Chair

The TODOS Elections Committee that includes Jim Barta (UT), Ed Dickey (SC), Miriam Leiva (NC), Nora Ramirez (AZ), and Katie Diaz Salguero (CA) was fortunate to receive numerous outstanding nominations from the TODOS membership for the two open offices of Director. The terms of Florence Glanfield of Alberta, Canada, and Bill Jasper of Texas will come to an end in April 2014.

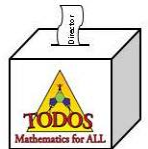
We are pleased to announce the following slate of candidates to fill the open Director positions:

Anita Bright (Oregon), **Carrie Chiappetta** (Connecticut), **Cynthia Hillman-Forbush**, (Maine), and **Angela Thompson** (Illinois). We were impressed by the experience and knowledge of all nominees and feel fortunate to put before our membership an exceptional slate of TODOS leaders.

Candidates' statements are available on the TODOS website and voting is open until February 10, 2014.

The two candidates receiving the most votes will be elected and begin their terms on the TODOS Board after the Business Meeting on April 9, 2014.

**VOTE IN
TODOS
ELECTIONS!**



Balka, continued

I am pleased to report that TODOS membership has continued to increase! Based on membership dues for 2013 – 2014, the Board was able to increase the amount of membership income for the 2014 – 2015 budget. Member Services Committee Chair Maria Torres keeps TODOS involved in many places during a typical year, such as the Conference for the Advancement of Mathematics Teaching (Texas), Georgia Council of Teachers of Mathematics, and the California Mathematics Council (South and North). We will have an exhibit table for the first time at the AMTE conference in Irvine, California. Get your colleagues or your school to join TODOS!

TODOS Live! is now in the hands of Carrie Chiappetta, mentored by Bob McDonald. Volunteer to do a webinar!

Finally, I repeat my message to you: As our influence in the mathematics education community grows, new ventures open for us. These require volunteers, other than Board members. If you are interested in serving TODOS, please let me know. Your involvement in providing equity awareness is critical in meeting the goals of TODOS.

Don S. Balka, TODOS President
Professor Emeritus
Saint Mary's College
Notre Dame, IN

Everything is Possible Because of YOU, YOU, and YOU

By Maria Torres

The work of TODOS Member Services for 2013 could not have happened without those wonderful and passionate member volunteers who rise to the call for service. Everything is possible where the support system is in place. TODOS members, sponsors, and supporters are part of that system. There were about one hundred TODOS Members involved in recruitment and retention efforts for TODOS. Information about members who volunteered to support TODOS will be posted in the EE-Noticias.

TODOS thanks Dan Funsch, President of the Georgia Council of Teachers of Mathematics, for the decision of making the GCTM a 2014 TODOS Sustaining Member .

TODOS LIVE! Season 4

Supported by ETA

Hand2mind, TODOS LIVE! will begin its Fourth Season in January 2014. TODOS LIVE! Look for the updates on the Webinars in the TODOS website.



HONOR YOUR STUDENTS! Phoenix metro area STUDENT AWARDS

TODOS: Mathematics for ALL will recognize up to six outstanding Phoenix metro area students in grades 5-12 from underrepresented groups, in particular Latina/o. The awards will be presented on Friday, June 27, 2014, during the 2014 TODOS Conference at the Sheraton Wild Horse Pass Resort and Spa, located on the Gila River Indian Community.

Each student will receive a calculator donated by Texas Instruments and a certificate from TODOS. Nominating teachers of award winners will receive a recognition certificate and a one-year membership/extension in TODOS. Nomination information is available at

<http://www.todos-math.org/todosconference2014>
and from Socorro Tapetillo,
studentawardsphx@todos-math.org.

Stanford University's Understanding Language-Language, Literacy, and Learning in the Content Areas initiative (UL)

As stated in their website, <http://ell.stanford.edu/>, UL "Understanding Language aims to improve education for all students—especially English Language Learners—in Math, Science, and English Language Arts. We plan to develop knowledge and resources that help content area teachers meet their students' linguistic needs as they address the Common Core State Standards and the Next Generation Science Standards."

The UL is an open source of materials for English Language Arts, Mathematics and Science. The website http://ell.stanford.edu/teaching_resources/math offers elementary, middle and high school materials and templates that will support math learning for ELLs in the classroom.

One of the major writers of the Guidelines for Design of Mathematics Instruction and Materials for ELLs is Judit Moschkovich, Professor of Mathematics Education in the Education Department at the University of California, Santa Cruz. Judit has been a member of TODOS since 2004.

EONAS and the Mathematics Education of American Indian Students

Thanks to Rich Sgarlotti and Jim Barta for the valuable information provided for this article

The Educators of Native American Students (EONAS) (<http://nasgem.rpi.edu/edu/pl/eonas>) is a subgroup of TODOS-Mathematics for ALL. EONAS carries out the mission of TODOS as it relates to the mathematics education of American Indian students, who have been much underrepresented in the STEM fields and have done poorly on standardized tests.

The latest report from the Education Trust, in August 2013, states that, "Despite recent progress in improving achievement among students of color, achievement results for Native students have remained nearly flat. As achievement has stagnated, the gaps separating Native students from their white peers have mostly widened". To read the full report, go to <http://www.edtrust.org/dc/publication/the-state-of-education-for-native-students>.

EONAS at NCTM Meetings

EONAS has presented at least one session at each NCTM Annual Meeting since 2005. During each conference, the organization also hosts separate meetings to discuss issues related to American Indian students' education. Whenever possible, the presentations include visits and/or exploration of mathematical ideas underlying artifacts of the Native American cultures that live around the area where the meeting is held. Meetings have been held at the National Museum of the American Indian, Eiteljorg Museum of American Indians and Western Art, and the Denver Art Museum.

Due to the culture-based mathematics as a strategy for success of Native students, a relationship has been established between EONAS and the North American Study Group on Ethnomathematics (NASGEM) (<http://nasgem.rpi.edu/>). All EONAS sessions have included ethnomathematics.

Please note: For the 2014 NCTM Annual Meeting in New Orleans, EONAS is planning an ethnomathematics activity related to Native American artifacts at the New Orleans Museum of Art. **An EONAS/TODOS representative is needed to help develop the activity.** Contact Rich Sgarlotti, rich.sgarlotti@hannahvilleschool.net if interested.

EONAS in Denver: At the 2013 NCTM conference in Denver, EONAS was given a spot by NASGEM at its booth to publicize the EONAS mission and meeting. EONAS and NASGEM hosted a reception and workshop at the **Denver Art Museum** to explore the American-Indian art and cultures.

Jim Barta, President of EONAS, and Rich Sgarlotti, liaison of EONAS to TODOS, presented a few mathematics lessons based on Native American artifacts, and art pieces, and took the opportunity to explore the remarkable exhibit of American-Indian Art at the Denver Art Museum, <http://www.denverartmuseum.org/collections/american-indian-art>. The activities for the lessons highlighted mathematical ideas derived from artifacts displayed at the museum, especially 2- and 3-dimensional geometry concepts.

Using Native American artifacts allows educators not only to make rigorous presentation of mathematics content, promote geometrical thinking, and patterns/algebraic reasoning, while targeting appropriate Common Core State Standards for Mathematics. Educators are also provided with an opportunity to open the doors for classroom discussions about the variety of cultures of the Native American peoples, their histories, and past and present experiences and struggles. It is an opportunity to bring up students' misconceptions, to break stereotypes, not just by talking about but from learning from the Native American cultures. When present in the classrooms, this offers an opportunity to empower American Indian students and promote participation.

For each lesson, educators should include the historical and cultural context of the artifacts. Integrating socio-cultural issues with mathematics helps students see mathematics as a cultural product of each society.

EONAS and NASGEM, elaborate to great extent the mathematical ideas underlying the processes and products of the art of Native Americans cultures. Newsletters included in the site (<http://nasgem.rpi.edu/>) are a remarkable source of knowledge and ideas on how to bring that knowledge into the classrooms.

Outlines of the following lessons, presented in Denver are included in the Electronic Extended version of Noticias in the TODOS website:



• **3-D Geometry of the Teepees:** From regular polygons to circles, from vertical pyramids with regular polygonal bases to cones. Nets, surface area, and volume.



• **3-D Geometry of the Parfleches (rawhide containers)** Building rectangular prisms connecting faces through edges and vertices, and constructing derived nets, calculating surface area and volume.



• **2-D Geometry of the illustrations and paintings on the faces of the Parfleches:** Shapes, plane transformations, line & rotational symmetries, translations, dilations, etc. ❖

Common Definition of English Language Learner (ELL) Why does it matter?

The Pew Charitable Trust (PCT) website <http://www.pewstates.org/projects/stateline/headlines/who-is-an-english-language-learner-85899514092>, states that "under the federal Civil Rights Act, schools are required to provide English-language learners with additional services to ensure they master English as well as the material other students are learning." However, due to the varying definitions of ELLs held by states and districts, students could be considered ELLs in some states and not in others. A particular definition, thus, determines which students receive the appropriate support. A variety of organizations, including the US Department of Education, are seeking a common definition.



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• **Editors:** *Susana Davidenko, Mary Alice Hatchett, Karen Mayfield-Ingram, Virginia Nelson, and Christine Uliassi.*

• **Contributors:** *Don Balka, Jim Barta, Jennifer Bay-Williams, Susana Davidenko, Ed Dickey, Carol A. Edwards, Melissa Hosten, Bob McDonald, Nora Ramirez, Rich Sgarlotti, and Maria Torres,*

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