CALL FOR PROPOSALS
2017 NARST Annual International Conference
Grand Hyatt San Antonio
San Antonio, Texas, USA, April 22 – April 25, 2017

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Theme— Glocalization and Sustainability of Science Education Research and Practice

NARST is a worldwide organization focused on improving science teaching and learning through research in order to help all learners, regardless of race, gender, or culture, achieve science literacy.

Over the past few decades, globalization has impacted many academic disciplines, as well as the social, cultural, and economic development of countries across the world. Science education is not an exception to this trend. To this point, NARST’s official journal, Journal of Research in Science Teaching, launched a special issue on Globalization in Science Education in 2011, in which it highlighted the need to better prepare the world’s children with high quality scientific literacy through research and practice. To this end, results of big data collections from international monitoring systems (such as TIMSS and PISA) show how successful science education programs are from one country to another, and research published in international journals combines academic resources coordinated across countries and pushes the field of science education forward on a larger scale. What does this mean in terms of science practice? Effective science education helps children benefit from local science efforts and also global interaction. This dual perspective is represented by the concept of glocalization, which combines the ideals of globalization with the importance of localization. Glocalization recognizes that the international science community benefits from countries sharing their research and educational outcomes, as well as using international monitoring systems, but that science learning is most effective when science concepts are taught via application to the local contexts in which students regularly interact and are familiar. Every country and every child should possess science literacy. Developing glocal literacy, glocal strategy, glocal leadership, and glocal vision in science education will help researchers and policymakers to co-construct a healthy learning environment that provides a collaborative atmosphere for eliciting global citizens’ scientific literacy. Furthermore, this glocalization should continuously play a role to facilitate a dynamic and interconnected community and sustain research and practice outcomes. Glocalization will move the science field toward greater collaboration (and communication), rather than simply competition among children, science teachers, science education researchers, and policymakers.

The 2017 NARST Annual International Conference theme is meant to bring science education researchers and educators together to ponder how we can connect with each other through research, make good use of international big data, and produce healthy and successful local learning environments.

Program Strands

The 2017 NARST program will feature sessions focused on 15 Program Strands and delivered in several session formats. Persons wishing to be on the program in San Antonio, Texas must identify the Strand that most closely aligns with their proposed topic. The 15 NARST Strands and their descriptions are listed in the following table:

<table>
<thead>
<tr>
<th>2017 NARST Strands and Descriptions</th>
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| **Strand 1. Science Learning, Understanding and Conceptual Change**  
How students learn for understanding and conceptual change. |
| **Strand 2. Science Learning: Contexts, Characteristics, and Interactions**  
Learning environments, teacher-student and student-student interactions, and factors related to and/or affecting learning. |
| **Strand 3. Science Teaching—Primary School (Grades preK-6): Characteristics and Strategies**  
Teacher cognition, content knowledge, pedagogical knowledge, pedagogical content knowledge, instructional materials and strategies. |
| **Strand 4. Science Teaching—Middle and High School (Grades 5-12): Characteristics and Strategies** |
Teacher cognition; content knowledge, pedagogical knowledge, pedagogical content knowledge, and instructional materials and strategies.

| Strand 5. College Science Teaching and Learning (Grades 13-20) |
| Instructor cognition, content knowledge, pedagogical knowledge, pedagogical content knowledge, student understanding and learning, and conceptual change at postsecondary level. |

| Strand 6. Science Learning in Informal Contexts |
| Learning and teaching in museums, outdoor settings, community programs, communications media and after-school programs. |

| Strand 7. Pre-service Science Teacher Education |
| Pre-service professional development of teachers, pre-service teacher education programs and policy, field experience, and issues related to pre-service teacher education reform. |

| Strand 8. In-service Science Teacher Education |
| Continuing professional development of teachers, in-service teacher education programs and policy, and issues related to in-service teacher education reform. |

| Strand 9. Reflective Practice |
| Teacher inquiry, action research, self-study practices, and transformative education. |

| Strand 10. Curriculum, Evaluation, and Assessment |
| Curriculum development, change, implementation, dissemination and evaluation, including alternative forms of assessment of teaching and learning. |

| Strand 11. Cultural, Social, and Gender Issues |
| Equity and diversity issues: sociocultural, multicultural, bilingual, racial/ethnic, and gender equity studies. |

| Strand 12. Educational Technology |
| Computers, interactive multimedia, video and other technologies. |

| Strand 13. History, Philosophy, and Sociology of Science |
| Historical, philosophical and social issues of science as related to science education. |

| Strand 14. Environmental Education |
| Ecological education, experiential education, education for sustainable development, and indigenous science. |

| Strand 15. Policy |
| Policy and practice issues: local, regional, national, or international issues of policy related to science education (e.g., teacher licensure requirements, curriculum adoption, assessment regulations, and funding policy for science education). |

### Program Formats

- **Stand-Alone Paper** by individual author or co-authors.
  Traditional presentation format allows for 15-20 minutes of individual presentation time (typically, four papers are scheduled per session for 90 minutes total and will be grouped by Strand co-coordinators by theme) in a theater-style setting.

- **Related Paper Set** by multiple authors or co-author groups.
  Groups of authors/co-authors must submit a set of four to five papers for presentation in a single 90-minute time block in the program. The proposal must show clearly the topic focus of the set. Papers within a set will be judged holistically. The group submitting the set will be required to identify their own presider (and possible discussant) for the session and will decide on the time allocations within the 90-minute block for presentations and discussion.

- **Interactive Poster Paper** by individual or co-authors.
  A single author or a group of co-authors may prepare a paper for presentation in an interactive poster format. Authors are required to have copies of their paper available for dissemination. Poster session presenters will be grouped with other poster presenters from the same Strand for a
90-minute time block. Many posters will be scheduled at the same time, so individuals can interact with the presenters, and move to other posters in the same session.

**Symposium by multiple presenters.**
Groups of participants may propose a symposium on a topic or issue. The proposal must involve four to ten participants and explicitly relate to the Strand title and description. The goals of the symposium should be clear and focused, as should the role of each participant and his/her topic. Symposium sessions will have a 90-minute time block in the program. Symposium proposals must be submitted as a single document; they may not contain individual papers. The group submitting the set will be required to identify their own presider (and possible discussant) for the session and will decide on the time allocations within the 90-minute block for presentations and discussion.

**Virtual Presentation by individual author or co-authors.**
The 2017 NARST program will feature a virtual conference. The intention of this virtual conference is to allow presenters who would not normally be able to physically attend NARST to participate in presentations, discussions, and other scholarly aspects of the NARST conference. Persons from UNDP-700 and below countries are encouraged to apply, though others may also submit. Please refer to the UNDP HDI 2014 data at [http://hdr.undp.org/en/data](http://hdr.undp.org/en/data) to identify countries with a HDI of .700 and below; which are countries with medium and low human development indicators [http://hdr.undp.org/en/countries](http://hdr.undp.org/en/countries).

Proposals will be in the standard five-page format and will be assessed as part of the normal NARST evaluation process. However, only four virtual presentations per strand will be accepted, for a total of up to 60 presentations. Selected papers may be in the form of a prerecorded video and/or narrated PowerPoint of no more than 15 minutes in length and will be available for viewing and comment for approximately one month before, during, and one month after the 2017 NARST Annual International Conference. These virtual presentations will only be available for viewing by NARST members in good standing. Please note: by submitting a proposal for the Virtual Presentation your proposal is only being reviewed for this option; your proposal is not being reviewed or considered for presentation at the live conference in San Antonio.

The Co-Chairs of the Program Committee (Mei-Hung Chiu, NARST President and Barbara Crawford, NARST President-elect) have the final decision in the assignment of presentation format; they may place proposed presentations into session types for which they were not submitted. If the proposer does not want the format assigned, the proposer will have the opportunity to withdraw the proposal.

**Presentation Limitations (Number and Originality)**
NARST limits the number of times a person can appear as first author at the conference. The rules are that an author may be:

1. First author on only one stand-alone paper or a paper within a related paper set.
2. First author on only one interactive poster paper.
3. Presenter in only one symposium.
4. Secondary author on any number of stand-alone, related paper set, and/or interactive poster papers.

The on-line system will not allow a submitter to make any more submissions than those that meet these guidelines. Please note that if you make more than one entry as first author in a category of presentation, the system will delete the earlier submission you entered for that same category.

NARST proposals submitted for presentations at the Annual International Conference MUST be original work that has not been / will not be presented at any other conference (e.g., AERA, ASERA, ASTE,
ESERA). Additionally, it is not acceptable to submit the same proposal to be presented in multiple formats (i.e., stand-alone paper and poster paper). Please ensure you submit an original proposal and to one program format only.

Proposal Submission Process

To begin the submission process, go to https://narst.org/abstracts2017/index.cfm. This URL is the “home page” for conference proposals. **If you are a NARST member,** you may log on with your NARST membership login information. You may change any personal information by clicking on Update Profile. **If you are not a NARST member,** you will need to create an account and enter your identifying information, institution, telephone number, fax number, and e-mail address. Enter your e-mail address for your username and select a password that you will remember.

Please note: the email address provided in your member profile or your non-member account will be used for all official correspondence, including (but not limited to) the NARST Annual International Conference program. If you do not want your email address included in the NARST Annual International Conference program, then there is a button to click when entering your proposal to indicate this preference.

At the Abstracts and Proposals Home Page, under User Tasks, you have the following links:

- **2017 NARST Call for Proposals** has a pdf version of the Call for Proposals.
- **Add New Paper / Edit Papers** allows you to select a category of proposal submission and submit your proposal. You may also edit your proposal from this link.
- **Update Profile** allows you to change your personal information (e.g., university affiliation, email address, etc.).
- **Update Optional Roles** provides you an opportunity to sign up to be a conference proposal reviewer for peer review. Several of the Strands need ample numbers of thoughtful reviewers; you are urged to volunteer for the strand that best corresponds with your research expertise. Please indicate if you also wish to be a conference session presider.
- **View a List of Strands** leads to a list of NARST Program Strands, their titles and descriptors.
- **2016-2017 Strand Co-Coordinators** links to the contact information for the program committee leadership and Strand co-coordinators for each of the 15 Strands.
- **Program Formats** leads to descriptions of the different program formats available to presenters.
- **Reviewer Rating Sheet** indicates the criteria used by reviewers in the peer review process.

Under User Tasks when you select Add New Paper / Edit Papers, you will be given four format choices: Stand-Alone Paper OR Related Paper Set (*the system forces you to select one of the two since you can be first author on only one*), Interactive Poster Paper, and Special Symposium. Click on the radial button for the type of paper you wish to begin working on and click on the button at the bottom that says Continue. There is a Reset button as well if you wish to change the type of proposal you want to enter.

Once you select the type of proposal you want to work on, you will be taken to a web page where you will enter the information about your proposal. After you have submitted all mandatory information, the system will allow you to come back to the proposal to revise it at any time until the August 15, 2016 deadline. **Please note that you may only post once for each type of entry; otherwise, the system will delete (by writing over) the proposal you posted originally.** If you wish to submit a Virtual Conference proposal, you may select the radial button for that option.
Entering Proposal Information into the Web Site

**Stand-Alone Paper.** Enter the **title** of the paper (limit 15 words). Next select your proposal type: **Research Paper** or **Theoretical Paper**. Since we cannot always accommodate the type of session every proposer would like, please indicate if you are willing to present as an Interactive Poster Paper instead. Add up to 10 authors to your proposal by clicking on the “Lookup Names” button. If the author you wish to add is not in the NARST database, then you will be able to enter the name and affiliation manually. Then, type into the abstract box an abstract of up to 200 words (about 1200 characters). If your proposal is accepted into the program, then this abstract will be used in the program book exactly as entered. Therefore, please watch for accuracy and check for any stray characters that might appear if you pasted the abstract from a Word file. Next, you will be asked to upload a PDF file of your proposal (five pages maximum—see formatting guidelines below). You will then click on a radial button indicating the Strand to which you are submitting; select two **Content Key Words** and one **Methodological Key Word** to help with assigning appropriate reviewers. Finally, click on **Submit Stand-Alone Paper Information** at the bottom of the page. You may come back to edit the proposal at any time until August 15, 2016. Any changes made after the initial submission will overwrite the previous version.

**Related Paper Set.** Enter an **overall session title** (limit 15 words). Next select your proposal type: **Research Paper** or **Theoretical Paper**. For each individual paper in the set, enter a **title** and add up to 10 authors per paper (with their role) by clicking on the “Lookup Names” button. If the author you wish to add is not in the NARST database, then you will be able to enter the name and affiliation manually. Then, type into the abstract box an **overall session abstract** of up to 200 words (about 1200 characters). If your proposal is accepted into the program, then this abstract will be used in the program book exactly as entered. Therefore, please watch for accuracy and check for any stray characters that might appear if you pasted the abstract from a Word file. Next, you will be asked to upload **one** PDF file of your proposal (10 pages maximum—see formatting guidelines below) that includes an overall summary of your Related Paper Set and descriptions of individual papers. You will then click on a radial button indicating the **Strand** to which you are submitting; select two **Content Key Words** and one **Methodological Key Word** to help with assigning appropriate reviewers. Finally, click on **Save Related Paper Set Information** at the bottom of the page. You may come back to edit the proposal at any time until August 15, 2016. Any changes made after the initial submission will overwrite the previous version.

**Interactive Poster Paper.** Enter the **title** of the paper (limit 15 words). Next select your proposal type: **Research Paper** or **Theoretical Paper**. Since we cannot always accommodate the type of session every proposer would like, please indicate if you are willing to present as a stand-alone paper instead. Add up to 10 authors to your proposal by clicking on the “Lookup Names” button. If the author you wish to add is not in the NARST database, then you will be able to enter the name and affiliation manually. Then, type into the abstract box an abstract of up to 200 words (about 1200 characters). If your proposal is accepted into the program, then this abstract will be used in the program book exactly as entered. Therefore, please watch for accuracy and check for any stray characters that might appear if you pasted the abstract from a Word file. Next, you will be asked to upload a PDF file of your proposal (five pages maximum—see formatting guidelines below). You will then click on a radial button indicating the **Strand** to which you are submitting; select two **Content Key Words** and one **Methodological Key Word** to help with assigning appropriate reviewers. Finally, click on **Save Interactive Poster Paper Information** at the bottom of the page. You may come back to edit the proposal at any time until August 15, 2016. Any changes made after the initial submission will overwrite the previous version.

**Symposium.** Enter the **title** (limit 15 words) of the symposium. Next select your proposal type: **Research Paper**, **Theoretical Paper**, or **Both Research and Theoretical**. Add up to 10 authors to your
proposal (with their role in the session) by clicking on the “Lookup Names” button. If the author you wish to add is not in the NARST database, then you will be able to enter the name and affiliation manually. Then, type into the abstract box an overall abstract of up to 200 words (about 1200 characters). If your proposal is accepted into the program, then this abstract will be used in the program book exactly as entered. Therefore, please watch for accuracy and check for any stray characters that might appear if you pasted the abstract from a Word file. Next, you will be asked to upload one PDF file of your proposal (10 pages maximum—see formatting guidelines below) with an overall summary of your symposium. You will then click on a radial button indicating the Strand to which you are submitting; select two Content Key Words and one Methodological Key Word to help with assigning appropriate reviewers. Finally, click on Save Symposium Information at the bottom of the page. You may come back to edit the proposal at any time until August 15, 2016. Any changes made after the initial submission will overwrite the previous version.

**Virtual Conference Presentation.** Enter the title (limit 15 words) of the presentation. Next select your proposal type: Research Paper or Theoretical Paper. Add up to 10 authors to your proposal by clicking on the “Lookup Names” button. If the author you wish to add is not in the NARST database, then you will be able to enter the name and affiliation manually. Then, type into the abstract box an abstract of up to 200 words (about 1200 characters). If your proposal is accepted into the program, then this abstract will be used in the program book exactly as entered. Therefore, please watch for accuracy and check for any stray characters that might appear if you pasted the abstract from a Word file. Next, you will be asked to upload a PDF file of your proposal (five pages maximum—see formatting guidelines below). You will then click on a radial button indicating the Strand to which you are submitting; select two Content Key Words and one Methodological Key Word to help with assigning appropriate reviewers. Finally, click on Save Virtual Conference Information at the bottom of the page. You may come back to edit the proposal at any time until August 15, 2016. Any changes made after the initial submission will overwrite the previous version.

**When submitting your proposals, please take care that you or your co-authors enter names exactly the same way each time.** This can be best accomplished by using the Lookup Names function in the proposal submission format. Using this function avoids scheduling conflicts and guarantees a conflict-free conference timetable. It also allows a consistent list of names in the program. If a presenter’s name is not in the NARST database, then ensure the name is entered exactly the same way each time to avoid schedule conflicts.

All proposals submitted to NARST go through a masked, peer-review process. Masked, peer-review means you are required to remove any identifiers of the names of the authors in the proposal, including the institution from which you conducted the study. **NOTE: Proposals that do not meet these criteria will not be reviewed.**

**Formatting for Submission of Proposal**

- **Paper or Poster** submission by individual author or co-authors. There is a maximum of five pages (including references).
- **Related Paper Set** submission by multiple authors or co-author groups. There is a maximum of 10 pages (including references). This should begin with a summary of the entire set describing how all of the papers are related, and then provide details of each individual paper integrated into one document.
- **Symposium** submission by multiple presenters. There is a maximum of 10 pages (including references). This should include a description of the overall session topic or issue in one document and indicate how the session will run (e.g., panel discussion followed by group discussion).
Virtual Conference submission by individual author or co-authors. There is a maximum of five pages (including references).

To prepare the text for your proposal, please ensure that pages are single-spaced with 1" (2.54 cm) margins all around, and in font no smaller than 12 on US Letter size paper (8.5” x 11”). This is crucial for the reviewer reviewing process, as larger paper size will not print. If you usually use A4 paper, please convert to US letter size as you finalize your proposal, before converting to a PDF format for submission. In your proposal, address the five criteria that are part of the review process: (a) subject/problem; (b) design/procedure; (c) findings and analysis; (d) contribution to the teaching and learning of science; and (e) how the paper will contribute to the interests of NARST members. See Reviewer Rubric at the end of this document for a more complete description of the review criteria.

Please note: These page limitations apply only to the proposal, not to the length of the paper presented at the NARST Annual International Conference.

Confirmation of Submission
Once you have finished filling out your registration form and completed the proposal upload, you will receive a confirmation message on the Web screen. Each person on the proposal will be sent an e-mail confirmation provided his or her email information is in the NARST system. Only the proposal submitter will be able to track the proposal on their Abstract Submission Home Page, which will have a confirmation number for each type of proposal submitted. Keep this number in your records in the event you need to inquire about your proposal submission.

Submission Deadline
The submission deadline is 5:00 pm YOUR local time on August 15, 2016 (the annual NARST proposal submission deadline).

In recent years, 92% of proposals are submitted in the final 72 hours. We request your cooperation in adhering to this submission deadline as a friendly and reasonable approach to ensure that the number of users in the final hours will be significantly reduced from that experienced in previous years. In essence, by completing your proposal not later than 5:00 pm your local time you will avoid experiencing sluggishness on the system, as well as ensure that others have a pleasant submission experience. We thank you in advance for your compliance with this deadline.

Requirements for First Authors
All first authors need to be present at the conference to present the paper or poster. The first author must register for the Annual International Conference by the close of the Advance Registration period. In 2017, Advance Registration will close February 24, 2017 (eight weeks in advance of the conference). First authors who do not register by the February 24th registration deadline will have their presentation removed from the conference program. It is the responsibility of each first author to comply with this requirement. You will not be contacted in the event you do not register by the deadline. By clicking on a radial button you agree to register by the deadline or have your presentation removed from the program.

Requirement of Presented Paper, Poster, or Symposium
All presenters – and all conference attendees - are required to register for the NARST Annual International Conference. If you present either a paper or a poster, you are required to have a paper (following the publication guidelines detailed in the Publication Manual of the American Psychological Association, 6th Edition, 2010) for distribution either at your presentation or through a personal link.
NARST no longer has a deadline for the voluntarily submission of papers to be included on either the NARST Conference CD or as a link to the electronic program. It is each author’s responsibility to provide access to a paper associated with the presentation.

Volunteering to Be an Reviewer or Presider

Please consider volunteering to be a reviewer (for peer review of proposals for the program) or presider (to facilitate discussion during sessions at the conference) by checking the appropriate box and Strand on the Web page where you uploaded your proposal. You have this option when you register as a new user, or you may edit this information if you already have a user name and password. You may volunteer for more than one Strand. Careful peer review is crucial to the quality of the Conference; thoughtful presiders can contribute to interactions at conference sessions. Both reviewers and presiders are leadership roles that may contribute to your professional development. You can sign up for these roles when you register for the site OR you may do so at any time by clicking on the Update Optional Roles link at www.narst.org/abstracts2017/.

Presentation Needs in San Antonio, Texas

One LCD projector and screen is provided in each concurrent session presentation room throughout the conference. Computers, speakers, and other presentation devices are not provided, so you will need to make your own arrangement for the presentation of electronic material.

Present a Modified NARST Presentation at NSTA

The NARST Research Committee is soliciting proposals for NARST-sponsored sessions at the following four National Science Teachers Association (NSTA) conferences: (1) 2018 National Conference (Atlanta, March 15 - 18, 2018); and (2) 2017 Area Conferences at (a) Baltimore, MD (October 27-29, 2017); (b) Milwaukee, WI (November 9-11, 2017); and (c) New Orleans, LA (November 30 - December 2, 2017). When you are submitting your NARST proposal, you will have the opportunity to indicate your interest in presenting a practitioner’s version of your NARST presentation at one of these NSTA meetings. A limited number of sessions will be available. The Research Committee will make final decisions about which proposals will be invited to participate at the NSTA meetings.

If you are interested in presenting a version of your proposed NARST session at any of these conferences, please provide an abstract of up to 500 words addressing the following six criteria that the NARST Research Committee has developed for NARST-sponsored presentations at NSTA meetings. Please also indicate at which conference(s) you are interested in presenting.

1. Address themes relevant for the teaching and learning of science
2. Bridge theory-practice gap and research-practice gap
3. Address concerns and needs of practitioners
4. Be interactive and engage the audience
5. Provide materials or ideas that can be used with a little or no modification by teachers, teacher educators, or administrators
6. Have a title and abstract that will attract a wide audience.
NARST Proposal Review Rubric

For each category, three criteria are required. Given the constraints of the 5-page limit for individual paper and poster proposals (10-page limit for related-paper sets and symposia), please assign a numerical rating using the following descriptors as a guide:

5 Highly evident: Proposal provides clear, substantive, and coherent evidence of all criteria
4 Adequately evident: Proposal adequately describes all criteria in the category.
3 Mostly evident: Proposal adequately describes 2 out of 3 criteria in the category
2 Somewhat evident: Proposal adequately describes 1 out of 3 criteria in the category
1 Not evident: Proposal does not adequately describe any of the criteria in the category

Additionally, please make sure that you explain your numerical ratings by responding to the rubric questions with constructive feedback identifying the proposal’s strengths and weaknesses in the text boxes provided. Answering Yes or No to the criteria questions is not considered acceptable feedback.

Subject/Problem
1. Is there a clear focus for the study?
2. Does the proposal include a clear rationale for the study?
3. Does the proposal describe the model, theoretical framework, or philosophy of the study?

Design or Procedure

Empirical Studies
1. Does the proposal clearly describe the methodology (theory of method)?
2. Does the proposal clearly describe the research methods, design, and study context?
3. Are the methodology, procedure, and design appropriate for the study and clearly aligned with the problem?

Non-Empirical Studies (e.g., conceptual or position papers, reviews of literature)
1. Does the proposal clearly describe the approach used to develop the argument or conduct the review?
2. Are the ideological/philosophical positions of the author and sources made clear?
3. Does the proposal include an appropriate range of literature?

Analyses and Findings

Empirical Studies
1. Do the data analyses appear to be appropriate, coherent, complete, and aligned with the research questions?
2. Are the arguments or interpretations supported by the data and linked to prior literature?
3. Does the proposal discuss alternative interpretations, bias, reliability, or validity as appropriate?

Non-Empirical Studies (e.g., conceptual or position papers, reviews of literature)
1. Do the syntheses of ideas appear to be appropriate, coherent, and complete?
2. Are the arguments or interpretations supported by evidence?
3. Does the proposal discuss alternative interpretations, counter-arguments, or bias, as appropriate?

Contribution
1. Do the conclusions add to, refine, or refute theoretical constructs?
2. Do conclusions contribute valuable insights and have implications into teaching/learning/researching science education?
3. Does the proposal clearly address, and have implications for, equity issues related to NARST’s goal of helping all learners achieve science literacy, including, but not limited to, race, sex, gender expression, ethnicity, socioeconomic status, access, ability, sexual orientation, language, national origin, and/or religion?

Cohesiveness* (Related Paper-sets only)
1. Are all of the papers in the set focused on a similar concept/theme?
2. Do all papers contribute new information to the set, making a meaningful strongly-related whole?
3. Are all papers contributing high quality information leading to a rigorous and comprehensive understanding of the theme?

General Interest
1. Does the content of the presentation promise to be of general interest to NARST members interested in this strand?
2. Is the content presented in a way that will be meaningful to NARST members interested in this strand?
3. Does the paper promise to be of interest to the education community at large?

Overall Rating (1—not recommended; 5 highly recommended)

To ensure NARST has high quality presentations at this year’s conference, please only recommend that proposals be accepted for presentation if your ratings are appropriately high and supportive of this recommendation.