

Invitation for Manuscript Submission

St. Anthony's College, Shillong is publishing a double blind peer reviewed journal (both print and online) names as **Spectrum: Science and Technology**. The first issue was published in the month of June 2014 with an ISSN. We presume that those who submit article to the *Spectrum* are willing to adhere to the blind peer -review process, that the manuscript is not being reviewed by another journal and that the authors have followed *Spectrum's* Manuscript Style Guide. Final decision to accept or reject a manuscript for publication rests with the Editors which will, in turn, be based on the feedbacks and recommendations received from the anonymous reviewers.

We invite research articles from our prospective contributors. A *research article* is an original, research-based paper that can advance the knowledge base of the academic community on different facets of various science and technology subjects. The paper should have a well-developed theoretical perspective, literature review, methodology/research design, and analyses/results.

About the College

St. Anthony's College, established in 1934, became the first institute of higher education of the Don Bosco Society worldwide. The college was accredited by NAAC with the rank of **Five Stars** on 20th September 2000. It was also awarded the status of **College with Potential for Excellence** by UGC on 7th April 2006. The college was re-accredited with **Grade 'A' (3.60 / 4.00 CGPA)** by NAAC on 29th January 2009. With more than 75 years of experience and expertise, no wonder that St. Anthony's College is now regarded as one of the best colleges of India.

Spectrum Manuscript Style Guide

The contributors to the *Spectrum* should follow the following the following Guidelines for Preparing a Manuscript:

Length, Spacing, Margins, Font Size, Colour, and Justification

All copy, including abstracts, footnotes, indented matter, and references, should be double spaced and no longer than 6,000 words. Lines should not be more than 6 inches long. Authors should use a single default 12-point font type (Times New Roman). Font colour should be black and authors should not change font colour in their manuscript. The alignment of the text should be left justified.

Title Page

The title page should contain the full title of the article, the name(s) and institution(s) of the author(s). Please indicate the name of the author with whom communications are to be directed and provide the postal address, email address, and phone number of that author. This cover sheet will be removed before the manuscript is forwarded to reviewers.

Abstract

The second page should also include the full title. Do not include authors' names or affiliations or other identifying information. The abstract of the manuscript should appear on this page. The word ABSTRACT is followed by a list of up to **six keywords** that describe the paper, followed by an abstract of no more than 150 words. The abstract should describe: (a) the article topic (in one sentence, if possible); (b) the purpose, concept of the article and the scope of the article; (c) the sources of data used, if appropriate; and (d) conclusions, recommendations, and implications. Authors should make their abstracts interesting enough to motivate subscribers to read their articles. Any acknowledgement(s) should be included as a footnote on this page.

The Article

Please begin the text of your paper on page 3. To permit anonymity in reviewing, repeat the title but do not name the author(s) or the institutional affiliations of the authors. The article may have the following sections: (i) Introduction
(ii) Materials and methods employed
(iii) Results, as concise as possible. Text, tables and figures illustrating the same data will rarely be permitted (iv) Discussion
and conclusions.

Numbering

Every page of the manuscripts, including the title page, references, tables, etc., should be numbered. However, in the text no reference should be made to page numbers; if necessary one may refer to sections. Avoid excessive usage of italics to emphasize part of the text.

Footnotes

Use footnotes only to explain material that cannot be justified for inclusion in text or tables. Number the notes consecutively, beginning with footnote 1.

Tables and figures

Tables should be constructed with the table facility of Microsoft Word. Place each table and each figure on a separate sheet in the manuscript. Tables should follow the text. Indicate in the paper where each table or figure should be inserted (e.g., "Table or Figure 1 here").

Graphics

Graphics may be used in the form of charts/figures or photographs. These graphics should have a material impact on the content of the article and not be used for decorative purposes. No more than 5 graphics may be used with any one article, except at the Editor's discretion.

It is the responsibility of authors to provide Web-ready, computer-generated graphics suitable for publication. Authors should keep the number of colours they use in graphics to a minimum and make sure the colours are distinct. The *Spectrum* will not convert graphics to other formats or perform other adjustments such as cropping. Graphics should not be too large to fit on a typical computer screen without scrolling. Thus, the largest size should be 500x400 pixels.

Graphics and photographs should be either embedded in a Microsoft Word document, or included in JPEG formats. Please note that no background graphics are acceptable.

Headings

Use headings to organize the article. Three headings are generally adequate. The first-level heading is left-justified, and uses all caps in bold. The second-level heading is left-justified, and all words except prepositions (*of, into, between, through*), articles (*a, an, the*), and coordinating conjunctions (*and, but, or*) are capitalized in bold. The third-level heading is indented and italicized in bold, and only the first letter of the first word is capitalized. The third-level heading is followed with a colon mark and is included as part of the text.

Abbreviation and symbols

Authors are asked to explain each scientific abbreviation at its first occurrence in their papers; for example, complement fixation test (CFT). The policy of the journal with respect to units and symbols is that SI (System International) symbols should be used.

Reference Citations in Text

Please cite all references in the text, where appropriate, by the author's last name, publication year, and page number(s). Footnotes are not to be used for citations. Depending on sentence construction, the citation will appear as follows: Pathak and Pandey (2012) or (Pathak and Pandey 2013). If a page number is used, it follows the publication year and is set off by a colon without any space: Pathak and Pandey (2012:124).

Enclose a series of citations within parentheses, separated by semicolons. Place multiple citations in alphabetical order: (Charles and Kennedy 2000; Kester and Voges 1995; Asthana 1992; Raj 1976).

For works by two authors, cite both last names. For three authors, cite all three last names in the first citation in the text: (Saikia, Sahu, and Chakrabarty 2002a:139); thereafter use only the first author's surname, followed by "et al." in the citation: (Saikia et al. 2002a:216). If a work has more than three authors, use "et al." in the first citation and in all subsequent citations.

Except as noted above in the case of three authors, make subsequent citations of a source exactly as cited the first time. If an author has two citations in the same year, distinguish them by attaching a or b to the year in both the text and the references: (Tiwari 2004a, 2004b). Cite manuscripts in chronological order, with earliest dates first. Multiple versions of one source: If a source has two publication dates, the earlier date should appear first in brackets, followed by the version actually used, in both the text and the reference section. Example: In text: (Author [1940] 2000) or Author ([1940] 2000); Reference section: Author. [1940] 2000. Title and appropriate publisher information.

Quotes

Depending on sentence construction, the citation will appear as follows: Pathak and Pandey (2012) or (Pathak and Pandey 2013). If a page number is used, it follows the publication year and is set off by a colon with no extra space: Pathak and Pandey (2012:124). Authors should always include the page number following the year and a colon, rather than separately, as in (p. 124). As such, it is acceptable for the page number to appear immediately before the quoted material.

Secondary quotes: If quoting a quote/citation from a secondary source, this should be referenced in the text, but without the page number for the original quote. The original source should also appear in the reference section. Single 'air' quotes should only be used inside of another quote, not to distinguish concepts or ideas. Instead, such concepts or ideas should be *italicized*.

Qualitative Data

Qualitative pieces should detail both methods and analysis within the text of the manuscript. Quotes from qualitative respondents do not, however, need to be referenced in the text in the same way as literature sources. Instead, authors may write something like, "One respondent noted that..." Or "A recurring theme within the analysis was..." It should be clear whether each statement is part of the literature review or the analysis.

The Reference Section

Spectrum does not use footnote or endnotes for references, except for Personal Communications as noted above. A "References" section should follow the body of the article. It should include **only those sources cited** in the article. Arrange the references in alphabetical order and double space. Type the first line of each reference item flush to the left-hand margin; use hanging indent function for remainder of citation. Supply complete information on each reference. There is no space between the issue number and page number (e.g., *Journal of Rural Social Sciences* 24(3):21-46). Below are a set of general guidelines:

Article in journal:

Niang, Stephen K., D. Clayton Smith, and Larry S. Ennis. 2006. "The Effects of Race, Place, Class, and Gender on Instructional Strategies in Kentucky's Seventh Grade Science Classes: Individual and School Level Analyses." *Southern Rural Sociology* 21(2):65-88.

Article from an online journal

Peacock-Lopez, E. Exact Solutions of the Quantum Double Square-Well Potential. *Chem. Ed.* [Online] **2007**, *11*, 383-393 <http://chemeducator.org/bibs/0011006/11060380lb.htm> (accessed Aug 23, 2007).

Book

Lobao, Linda M. 1990. *Locality and Inequality*. Albany, NY: SUNY Press.

Edited Book

Wright, Wynne and Gerad Middendorf, eds. 2007. *The Fight Over Food: Producers, Consumers, and Activists Challenge the Global Food System*. University Park, PA: The Pennsylvania State University Press.

Article or chapter in an edited volume

Zuiches, James J. 1982. "Residential Preferences." Pp. 247-63 in *Rural Society in the U.S.: Issues for the 1980s*, edited by D. A. Dillman and D. J. Hobbs. Boulder, CO: Westview. (for editors use initials instead of full first names).

Two publications by same author in same year

Theodori, Gene L. 2004a. "Exploring the Association Between Length of Residence and Community Attachment: A Research Note." *Southern Rural Sociology* 20(1):107-122.

Theodori, Gene L. 2004b. "Community Attachment, Satisfaction, and Action.." *Journal of the Community Development Society* 35(2):73-86.

Government document

Beale, Calvin L. 1975. *The Revival of Population Growth in Nonmetropolitan America*. U.S. Department of Agriculture, ERS-605. Washington, DC: U.S. Government Printing Office.

Web page

National Library of Medicine. Environmental Health and Toxicology: Specialized Information Services. <http://sis.nlm.nih.gov/enviro.html> (accessed Aug 23, 2004).

Article from full text database

Begley, S. When Does Your Brain Stop Making New Neurons? *Newsweek*[Online] July 2, 2007, p 62. Expanded Academic Index. <http://galegroup.com> (accessed Aug 23, 2007).

Computer Program

SciFinder Scholar, version 2007; Chemical Abstracts Service: Columbus, OH,

Conference/Meetings (full-text)

Winstein, S. In *University Chemical Education*, Proceedings of the International Symposium on University Chemical Education, Frascati (Rome), Italy, October 16-19, 1969; Chisman, D. G.. Ed.; Butterworths: London, 1970.

Patents

Wilkins, T. D.; Tucker, K. D. Detection, Isolation, and Purification of Clostridium Difficile Toxin A with Toxin Receptors. U.S. Patent 5,098,826, March 24, 1992.

Conference/Meetings (abstract only)

Kaplan, L.J.; Selder, A. *Books of Abstracts*, 213th ACS National Meeting, San Francisco, CA, April 13-17, 1997; American Chemical Society: Washington, DC, 1997; CHED-824.

Technical Report or Bulletin

Crampton, S.B.; McAllaster, D. R. *Collision and Motional Averaging Effects in Cryogenic Atomic Hydrogen Masers*; WMC-AFOSR-002; NTIS: Springfield, VA, 1983.

Dissertation (M. Phil / Ph. D.)

Smith, Douglas Clayton. 1996. "Power and Process in the Siting of Municipal Solid Waste Incinerators." PhD Dissertation, Department of Sociology, The Pennsylvania State University, University Park, PA.

Unpublished manuscript

Mundi, Gloria. 1998. "Environmentalism and Youth Activities." Department of Sociology, St. Pippin's College, Cincinnati, OH. Unpublished manuscript.

Presented paper

Zekeri, Andrew A. and Rueben C. Warren. 2011. "Coping with Hurricane Katrina: Psychological Resilience among African American Families in Rural Alabama." Paper presented at the annual meeting of the Southern Rural Sociological Association. Corpus Christi, TX. Feb. 7.

Newspaper article (print)

Goldstein, Alan. 1997. "Dying Patients' Care Varies Widely by Place, Study Says." *Washington Post*, October 15, p. A1.

Machine-readable data file

American Institute of Public Opinion. 1976. *Gallup Public Opinion Poll #965* [MRDF]. Princeton, NJ: American Institute of Public Opinion [producer]. New Haven, CT: Roper Public Opinion Research Center, Yale University [distributor].

On-line journal article

Wimberley, Ronald and Libby V. Morris. 2002. "The Regionalization of Poverty: Assistance for the Black Belt South." *Southern Rural Sociology* 18(1):294-306. Retrieved April 30, 2008 (<http://www.ag.auburn.edu/auxiliary/srsa/pages/Articles/SRS%202002%2018%201%20294-306.pdf>).

On-line newspaper article

Goldstein, Albert. 1997 "Dying Patients' Care Varies Widely by Place, Study Says." *Washington Post*, October 15, p. A1. Retrieved October 15, 1997 (<http://www.washingtonpost.com/wp-srv/WPlate/1997-10/15/0661-101597-idx.html>).

Internet Site

MigrationInt. 2003. "Sanctions: Tyson Acquitted, Airports." April, Number 2. Retrieved May 24, 2006 (http://www.migrationint.com.au/news/tahiti/apr_2003-02mn.asp).

HARD COPY SUBMISSION

The hard copy of the research article should be submitted at the following address:

Chief Editor

Spectrum - Science and Technology

St. Anthony's College

Shillong (Meghalaya)

India - 793001

email: rnbhuyan2020@anthonys.ac.in

ELECTRONIC SUBMISSION

The *Spectrum* also accepts submissions in electronic format (Microsoft Word) from a single, designated, corresponding author who will be responsible for all subsequent communication with the Chief Editor. For tracking purposes, the corresponding author should use the same e-mail address that appears in the submission proper while communicating with the Chief Editor. If the corresponding author is submitting more than one article, he or she should submit each article in a separate email. The corresponding author should send the article to spectrum.sc@anthonys.ac.in as an email attachment with "**Spectrum Article**" in the subject line.

Please Note:

- **Supplementary Materials:** Large data sets with no appropriate approved repository must be housed as supplementary materials at *Spectrum*, or only when this is not possible, on an archived institutional Web site, provided a copy of the data is held in escrow at *Science* to ensure availability to readers.
- **Animal care:** The authors of the *Spectrum* must satisfy the Editors that the work conformed to appropriate ethical standards. Experimental animals must be handled in accordance with the authors' institutional guidelines.
- **Access policies:** After publication, authors may post the accepted version of the paper on the author's personal Web site. For research papers created under grants for which the authors are required by their funding agencies to make their research results publicly available, *Spectrum* allows posting of the accepted version of the paper to the funding body's archive or designated repository, six months after publication, provided that a link to the final version published in *Spectrum* is included.
- **Data and materials availability:** All data necessary to understand, assess, and extend the conclusions of the manuscript must be available to any reader of *Spectrum* *if asked for*.
- **Funding and conflict of interest:** Authors must agree to disclose all affiliations, funding sources, and financial or management relationships that could be perceived as potential sources of conflict of interest.
- **License and copyright:** Authors retain copyright but agree to grant to *Spectrum* an exclusive license to publish the paper in print and online.