



Saint Bonaventure University

Saint Bonaventure, New York 14778 1

Department of Physics

April 23, 1991

To: Dr. Richard Reilly

From: John F. Neeson

Re: Evaluation criteria and their Application

A) The evaluation criteria used by the department of Physics fall into four categories. They are in order of importance teaching effectiveness, research activity and University service and professionalism.

I. Teaching:

A) With respect to teaching effectiveness the following factors are considered:

- 1) Knowledge of subject material
- 2) Effectiveness in communicating
- 3) Ability to teach a range of departmental courses
- 4) Ability to teach graduate courses
- 5) Fairness
- 6) Appeal to students
 - a) majors, b) non-majors (science)
 - c) non-majors (non-science)

B) Methods used to gauge factors listed in A

- 1) Peer Evaluation
 - a) Intradepartmental conversations concerning the preparation of students as they are passed from one course to the next.
 - b) Preparation of common syllabi and perusal of examinations and texts selected from courses.
 - c) Classroom observation
- 2) Student Evaluation
 - a) Comments (feedback) of graduates on their state of preparedness as they entered into quality graduate programs.
 - b) Comments of alumni with respect of professional or career preparation.
 - c) Student evaluations (see attachment #1).
 - d) Student performance on oral comprehensives.
 - e) Performance of students on standardized examinations.

II. Research and Professional Activity

Faculty are expected to be professionally active. An ordered ranking of Professional Activity follows:

- A) Research and Publication (In order of importance of recognition of those activities)
 - 1) Nobel Prize
 - 2) Invitation to serve on Editorial Board of a Scientific Journal
 - 3) Invitation to write a review article in a scholarly journal or a monograph
 - 4) Invitation to referee articles for a professional journal
 - 5) Scholarly article in a refereed journal (See attachment #2)
 - 6) Recognition of scholarly work as evidenced by appearance in Citation Index
 - 7) Publication of a Textbook
 - 8) Presentation of a reviewed contributed paper at a professional meeting
 - 9) Testimony from other highly regarded scholars in the field
- B) Professional Society Activity
 - 1) Chairing section at a conference
 - 2) Holding office
 - 3) Managing a conference or scholarly meeting
- C) Professional Activity
 - 1) Preparing and receiving reviewed grants from National Funding Organizations

III. Community Service

- A) University Committee Work
 - 1) Faculty Senate
 - 2) University-wide committees, standing and ad-hoc
 - 3) School or division committee
 - 4) Department committees
- B) Extra-University Services
 - 1) Service in professional capacity
 - 2) Service in role as citizen

IV. Professionalism

There needs to be room for the person to be evaluated for professionalism and cooperation. We are a small department and it is absolutely essential that we have cooperation between the members of our department and an adherence to our goal of giving the students a quality education in physics and physics related subjects.

An acceptable weighting of the relative importance of these areas would be:

Teaching	5
Research	3
Service	2
Professionalism	<u>2</u>
	12

B) Applications

The evaluation criteria listed above would be applied to the following situations.

I) Yearly Evaluations

Yearly evaluations by the chairman conducted in conjunction with the self evaluation of the faculty member should serve to delineate, over the course of the years, the duties and professional responsibilities of the faculty member and should accurately reflect the individual's performance especially in so far as progress is made toward the following professional mile posts.

II) Tenure

The decision to recommend tenure must rest upon "... the candidate's performance as a faculty member and the prospect for continued meritorious contribution to the University .." [Handbook] The Department concurs [with the statement of the Faculty Committee on Recommendations, 1985] that, "... tenure is a recognition that an individual has the ability to become an outstanding teacher, a scholar and a contributing member of the community based on his [her] already demonstrated work in these areas .."

Evidence of the salutary effect an individual has on his/her students, colleagues and the university will consist of past satisfactory performance in all areas delineated in A above, and the reasonable expectation that the performance will continue.

III) Promotion

A) Associate Professor

The Handbook requires the candidate possess the doctoral degree. It further requires the candidate have demonstrated outstanding teaching ability and achievement in scholarship. The Faculty Committee on Recommendations [1985] underscored the dual requirement by stating, "Extraordinary activity in either cannot compensate for inferior activity in the other." The Committee felt a minimum of two articles published in respected refereed journals be required for promotion to the rank.

Consideration for promotion to the rank of Associate Professor in the Department of Physics would require:

- 1) The Ph.D. degree
- 2) Outstanding teaching ability as evidenced by criteria previously listed in A.I. above.
- 3) Achievement in scholarship as evidenced by a minimum of two articles published in respected refereed journals (a list of acceptable journals is appended) coupled with a clear evaluation of the significance of the research by the chairman.

B) Professor

The Handbook requires the Professor to "... have gained professional recognition for his contribution to his field of knowledge." The Faculty Committee on Recommendations [1985] placed the emphasis here on scholarship, "The professor's work should be known outside the university gaining the professor respect and recognition."

The Department of Physics will use the criteria listed in, A.II. A, B, C, above, in evaluating an individual's candidacy for the rank of Professor. It goes without saying that a candidate's Teaching Performance should be judged as being at least as salutatory as it was in the evaluation process for Associate Professor.

Approved at Departmental Meeting 4/22/91

Jay Kohn, PhD
Stephen G. Alexander, PhD
Walter V. Rudynski

Christopher Gray, Ph.D
John B. Neeson

INSTRUCTOR: _____

COURSE: _____ SECTION OR TIME: _____

Please respond by entering the appropriate number in the blank on the right.

- A. At present I am: A. _____
 - 1. a freshman 2. a sophomore 3. a junior 4. a senior

- B. My G.P.A. is: B. _____
 - 1. below 2.00 2. 2.00-2.50 3. 2.60-3.00 4. 3.01-3.50
 - 5. above 3.50

- C. In this course, I expect a grade of: C. _____
 - 1. F 2. D-D+ 3. C-C+ 4. B-B+ 5. A

- D. For me, this course is: D. _____
 - 1. part of a university or school requirement
 - 2. part of my major
 - 3. required by my major, but outside the major department
 - 4. an elective

- E. I have missed class: E. _____
 - 1. fewer than 2 times 2. 2-3 times 3. 4-5 times
 - 4. more than 5 times

On the following items, rate the instructor of the course by placing the appropriate number in the space on the right. In every case 1 is the least favorable rating (poor), 3 is average (as expected), and 5 is most favorable (excellent).

1 - 2 - 3 - 4 - 5

- F. Rate the instructor's knowledge of the subject matter of the course. F. _____

- G. Rate the instructor's ability to communicate knowledge or skills. G. _____

- H. Rate the instructor's enthusiasm for the subject. H. _____

- I. Rate the instructor's fairness in grading. I. _____

- J. Rate the instructor's fairness in class, responding to students. J. _____

- K. Rate the instructor's availability for out of class assistance or advice. K. _____

- L. Rate the promptness with which work submitted is returned. L. _____

- M. Rate the instructor's general appeal for students. M. _____

[The text in this block is extremely faint and illegible, appearing as a series of light gray marks and noise across the page.]

APPENDIX G: JOURNAL TITLE ABBREVIATIONS

The following is a list of journal abbreviations. For example, *J. Vac. Sci. Technol.* is the standard abbreviation for the *Journal of Vacuum Science and Technology*. The journals listed are those most frequently cited in physics research. A more complete list is given in *Bibliographic Guide for Editors & Authors* (American Chemical Society, Washington, D.C., 1974); for abbreviations of titles of mathematical journals, the *Guide* should be supplemented by *Abbreviations of the Names of Scientific Periodicals Reviewed in Mathematical Reviews* (American Mathematical Society, Providence, R.I., 1971). A transliterated Russian title is followed immediately by the title of the corresponding translated journal, and this combined form should be imitated when citing from the Russian literature. To simplify alphabetization, "The" as the first word of a title is omitted.

Accounts of Chemical Research	Acc. Chem. Res.
Acta Chemica Scandinavica	Acta Chem. Scand.
Acta Crystallographica	Acta Crystallogr.
Acta Crystallographica, Section A: Crystal Physics, Diffraction, Theoretical and General Crystallography	Acta Crystallogr. Sec. A
Acta Crystallographica, Section B: Structural Crystallography and Crystal Chemistry	Acta Crystallogr. Sec. B
Acta Mathematica Academiae Scientiarum Hungaricae	Acta Math. Acad. Sci. Hung.
Acta Metallurgica	Acta Metall.
Acta Oto-Laryngologica	Acta Oto-Laryngol.
Acta Physica	Acta Phys.
Acta Physica Austriaca	Acta Phys. Austriaca
Acta Physica Polonica	Acta Phys. Pol.
Acustica	Acustica
Advances in Applied Mechanics	Adv. Appl. Mech.
Advances in Atomic, Molecular, and Optical Physics	Adv. At. Mol. Opt. Phys.
Advances in Chemical Physics	Adv. Chem. Phys.
Advances in Magnetic Resonance	Adv. Magn. Reson.
Advances in Physics	Adv. Phys.
Advances in Quantum Chemistry	Adv. Quantum Chem.
AIAA Journal	AIAA J.
AIChE Journal	AIChE J.
AIP Conference Proceedings	AIP Conf. Proc.
Akusticheskii Zhurnal [Soviet Physics-Acoustics]	Akust. Zh. [Sov. Phys. Acoust.]
American Journal of Physics	Am. J. Phys.
Analytical Chemistry	Anal. Chem.
Annalen der Physik (Leipzig)	Ann. Phys. (Leipzig)
Annales de Chimie et de Physique	Ann. Chim. Phys.
Annales de Geophysique	Ann. Geophys.
Annales de l'Institut Henri Poincaré	Ann. Inst. Henri Poincaré
Annales de l'Institut Henri Poincaré, Section A: Physique Theorique	Ann. Inst. Henri Poincaré, A
Annales de l'Institut Henri Poincaré, Section B: Calcul des Probabilites et Statistique	Ann. Inst. Henri Poincaré, B
Annales de Physique (Paris)	Ann. Phys. (Paris)
Annals of Fluid Dynamics	Ann. Fluid Dyn.
Annals of Mathematics	Ann. Math.
Annals of Otolaryngology, Rhinology, & Laryngology	Ann. Otol. Rhinol. Laryngol.
Annals of Physics (New York)	Ann. Phys. (N.Y.)
Annual Review of Nuclear Science	Annu. Rev. Nucl. Sci.
Applied Optics	Appl. Opt.
Applied Physics Letters	Appl. Phys. Lett.
Applied Spectroscopy	Appl. Spectrosc.
Arkiv foer Fysik	Ark. Fys.
Astronomical Journal	Astron. J.

Astronomicheskii Zhurnal [Soviet Astronomy]	Astron. Zh. [Sov. Astron.]
Astronomische Nachrichten	Astron. Nachr.
Astronomy and Astrophysics	Astron. Astrophys.
Astrophysical Journal	Astrophys. J.
Astrophysical Journal, Letters to the Editor	Astrophys. J. Lett.
Astrophysical Journal, Supplement Series	Astrophys. J. Suppl. Ser.
Astrophysical Letters	Astrophys. Lett.
Atomnaya Energiya [Soviet Journal of Atomic Energy]	At. Energ. [Sov. J. At. Energy]
Australian Journal of Physics	Aust. J. Phys.
Bell System Technical Journal	Bell Syst. Tech. J.
Berichte der Bunsengesellschaft für Physikalische Chemie	Ber. Bunsenges. Phys. Chem.
British Journal of Applied Physics	Br. J. Appl. Phys.
Bulletin of the Academy of Sciences of the USSR, Physical Series (translation of Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya)	Bull. Acad. Sci. USSR, Phys. Ser.
Bulletin of the American Astronomical Society	Bull. Am. Astron. Soc.
Bulletin of The American Physical Society	Bull. Am. Phys. Soc.
Bulletin of the Astronomical Institutes of the Netherlands	Bull. Astron. Instit. Neth.
Bulletin of the Chemical Society of Japan	Bull. Chem. Soc. Jpn.
Bulletin of the Seismological Society of America	Bull. Seismol. Soc. Am.
Canadian Journal of Chemistry	Can. J. Chem.
Canadian Journal of Physics	Can. J. Phys.
Canadian Journal of Research	Can. J. Res.
Chemical Physics	Chem. Phys.
Chemical Physics Letters	Chem. Phys. Lett.
Chemical Reviews	Chem. Rev.
Classical and Quantum Gravity	Class. Quantum Grav.
Comments on Nuclear and Particle Physics	Comments Nucl. Part. Phys.
Communications in Mathematical Physics	Commun. Math. Phys.
Communications on Pure and Applied Mathematics	Commun. Pure Appl. Math.
Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences	C. R. Acad. Sci.
Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences, Serie A: Sciences Mathematiques	C. R. Acad. Ser. A
Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences, Serie B: Sciences Physiques	C. R. Acad. Ser. B
Computers in Physics	Comput. Phys.
Cryogenics	Cryogenics
Czechoslovak Journal of Physics	Czech. J. Phys.
Discussions of the Faraday Society	Discuss. Faraday Soc.
Doklady Akademii Nauk SSSR [Soviet Physics Doklady]	Dok. Akad. Nauk SSSR [Sov. Phys. Dokl.]
Earth and Planetary Science Letters	Earth Planet. Sci. Lett.
Electronics Letters	Electron. Lett.
Experientia	Experientia
Fields and Quanta	Fields Quanta
Fizika Elementarnykh Chastits i Atomnogo Yadra [Soviet Journal of Particles and Nuclei]	Fiz. Elem. Chastits At. Yadra [Sov. J. Part. Nucl.]
Fizika i Tekhnika Poluprovodnikov [Soviet Physics Semiconductors]	Fiz. Tekh. Poluprovodn. [Sov. Phys. Semicond.]

Fizika Metallov i Metallovedenie [Physics of Metals and Metallography (USSR)]	Fiz. Met. Metalloved. [Phys. Met. Metallogr. (USSR)]
Fizika Nizkikh Temperatur [Soviet Journal of Low Temperature Physics]	Fiz. Nizk. Temp. [Sov. J. Low Temp. Phys.]
Fizika Plazmy [Soviet Journal of Plasma Physics]	Fiz. Plazmy [Sov. J. Plasma Phys.]
Fizika Tverdogo Tela (Leningrad) [Soviet Physics-Solid State]	Fiz. Tverd. Tela (Leningrad) [Sov. Phys. Solid State]
Fizika (Zagreb)	Fizika (Zagreb)
Fortschritte der Physik	Fortschr. Phys.
Foundations of Physics	Found. Phys.
General Relativity and Gravitation	Gen. Relativ. Gravit.
Geochimica et Cosmochimica Acta	Geochim. Cosmochim. Acta
Geophysical Research Letters	Geophys. Res. Lett.
Handbuch der Physik	Handb. Phys.
Helvetica Chimica Acta	Helv. Chim. Acta
Helvetica Physica Acta	Helv. Phys. Acta
High Temperature (USSR) (translation of Teplofizika Vysokikh Temperatur)	High Temp. (USSR)
IBM Journal of Research and Development	IBM J. Res. Dev.
Icarus. International Journal of the Solar System	Icarus.
IEEE Journal of Quantum Electronics	IEEE J. Quantum Electron.
IEEE Transactions on Antennas and Propagation	IEEE Trans. Antennas Propag.
IEEE Transactions on Electron Devices	IEEE Trans. Electron Devices
IEEE Transactions on Information Theory	IEEE Trans. Inf. Theory
IEEE Transactions on Instrumentation and Measurement	IEEE Trans. Instrum. Meas.
IEEE Transactions on Magnetics	IEEE Trans. Magn.
IEEE Transactions on Microwave Theory and Techniques	IEEE Trans. Microwave Theory Tech.
IEEE Transactions on Nuclear Science	IEEE Trans. Nucl. Sci.
IEEE Transactions on Sonics Ultrasonics Industrial and Engineering Chemistry	IEEE Trans. Sonics Ultrason. Ind. Eng. Chem.
Infrared Physics	Infrared Phys.
Inorganic Chemistry	Inorg. Chem.
Inorganic Materials (USSR) (translation of Izvestiya Akademii Nauk SSSR, Neorganicheskie Materialy)	Inorg. Mater. (USSR)
Instruments and Experimental Techniques (USSR) (translation of Pribory i Tekhnika Eksperimenta)	Instrum. Exp. Tech. (USSR)
International Journal of Magnetism	Int. J. Magn.
International Journal of Quantum Chemistry	Int. J. Quantum Chem.
International Journal of Quantum Chemistry, Part 1	Int. J. Quantum Chem. 1
International Journal of Quantum Chemistry, Part 2	Int. J. Quantum Chem. 2
International Journal of Theoretical Physics	Int. J. Theor. Phys.
Izvestiya, Academy of Sciences, USSR, Atmospheric and Oceanic Physics (translation of Izvestiya Akademii Nauk SSSR, Fizika Atmosfery i Okeana)	Izv. Acad. Sci. USSR, Atmos. Oceanic Phys.
Izvestiya, Academy of Sciences, USSR, Physics of the Solid Earth (translation of Izvestiya Akademii Nauk SSSR, Fizika Zemli)	Izv. Acad. Sci. USSR, Phys. Solid Earth
Izvestiya Akademii Nauk SSSR, Fizika Atmosfery i Okeana [Izvestiya, Academy of Sciences, USSR, Atmospheric and Oceanic Physics]	Izv. Akad. Nauk SSSR, Fiz. Atmos. Okeana [Izv. Acad. Sci. USSR, Atmos. Oceanic Phys.]

Journal of Physics (Moscow)
 Journal of Plasma Physics
 Journal of Polymer Science
 Journal of Polymer Science, Polymer Letters Edition
 Journal of Polymer Science, Polymer Physics Edition
 Journal of Quantitative Spectroscopy &
 Radiative Transfer
 Journal of Research of the National Bureau of
 Standards
 Journal of Research of the National Bureau of
 Standards, Section A: Physics and Chemistry
 Journal of Research of the National Bureau of
 Standards, Section B: Mathematical Sciences
 Journal of Research of the National Bureau of
 Standards, Section C: Engineering and
 Instrumentation
 Journal of Rheology
 Journal of Sound and Vibration
 Journal of Speech and Hearing Disorders
 Journal of Speech and Hearing Research
 Journal of Statistical Physics
 Journal of the Acoustical Society of America
 Journal of the American Ceramic Society
 Journal of the American Chemical Society
 Journal of the American Institute of Electrical
 Engineers
 Journal of the Audio Engineering Society
 Journal of the Chemical Society
 Journal of the Electrochemical Society
 Journal of the Mechanics and Physics of Solids
 Journal of the Optical Society of America
 Journal of the Optical Society of America A
 Journal of the Optical Society of America B
 Journal of the Physical Society of Japan
 Journal of Vacuum Science and Technology
 Journal of Vacuum Science and Technology A
 Journal of Vacuum Science and Technology B

 Kolloid Zeitschrift & Zeitschrift für Polymere
 Kongelige Danske Videnskabernes Selskab,
 Matematsik-Fysiske Meddelelser
 Kristallografiya [Soviet Physics-Crystallography]
 Kvantovaya Elektronika (Moscow)
 [Soviet Journal of Quantum Electronics]

 Laryngoscope
 Lettere al Nuovo Cimento
 Lick Observatory Bulletins

 Materials Research Bulletin
 Medical Physics
 Memoirs of the Royal Astronomical Society
 Molecular Crystals and Liquid Crystals
 Molecular Physics
 Monthly Notices of the Royal Astronomical Society

 National Bureau of Standards (U.S.), Circular
 National Bureau of Standards (U.S.),
 Miscellaneous Publication
 National Bureau of Standards (U.S.),
 Special Publication

J. Phys. (Moscow)
 J. Plasma Phys.
 J. Polym. Sci.
 J. Polym. Sci., Polym. Lett. Ed.
 J. Polym. Sci., Polym. Phys. Ed.

 J. Quant. Spectros. Radiat. Transfer

 J. Res. Natl. Bur. Stand.

 J. Res. Natl. Bur. Stand. Sec. A

 J. Res. Natl. Bur. Stand. Sec. B

 J. Res. Natl. Bur. Stand. Sec. C
 J. Rheol.
 J. Sound Vib.
 J. Speech Hear. Disord.
 J. Speech Hear. Res.
 J. Stat. Phys.
 J. Acous. Soc. Am.
 J. Am. Ceram. Soc.
 J. Am. Chem. Soc.

 J. Am. Inst. Electr. Eng.
 J. Audio Engin. Soc.
 J. Chem. Soc.
 J. Electrochem. Soc.
 J. Mech. Phys. Solids
 J. Opt. Soc. Am.
 J. Opt. Soc. Am. A
 J. Opt. Soc. Am. B
 J. Phys. Soc. Jpn.
 J. Vac. Sci. Technol.
 J. Vac. Sci. Technol. A
 J. Vac. Sci. Technol. B

 Kolloid Z. Z. Polym.

 K. Dan. Vidensk. Selsk. Mat. Fys. Medd.
 Kristallografiya [Sov. Phys. Crystallogr.]

 Kvant. Elektron. (Moscow) [Sov. J. Quantum Electron.]

 Laryngoscope
 Lett. Nuovo Cimento
 Lick Obs. Bull.

 Mater. Res. Bull.
 Med. Phys.
 Mem. R. Astron. Soc.
 Mol. Cryst. Liq. Cryst.
 Mol. Phys.
 Mon. Not. R. Astron. Soc.

 Natl. Bur. Stand. (U.S.), Circ.

 Natl. Bur. Stand. (U.S.), Misc. Publ.

 Natl. Bur. Stand. (U.S.), Spec. Publ.

Physikalische Zeitschrift
Physikalische Zeitschrift der Sowjetunion
Physik der Kondensierten Materie
Pis'ma v Astronomicheskii Zhurnal
[Soviet Astronomy Letters]
Pis'ma v Zhurnal Eksperimental'noi
i Teoreticheskoi Fiziki [JETP Letters]
Pis'ma v Zhurnal Tekhnicheskoi Fiziki
[Soviet Technical Physics Letters]
Planetary and Space Science
Plasma Physics
Pribory i Tekhnika Eksperimenta [Instruments and
Experimental Techniques (USSR)]
Proceedings of the Cambridge Philosophical Society
Proceedings of the IEEE
Proceedings of the IRE
Proceedings of the National Academy of Sciences
of the United States of America
Proceedings of the Physical Society, London
Proceedings of the Physical Society, London,
Section A
Proceedings of the Physical Society, London,
Section B
Proceedings of the Royal Society of London
Proceedings of the Royal Society of London, Series
A: Mathematical and Physical Sciences
Progress of Theoretical Physics
Publications of the Astronomical Society of
the Pacific

Radiation Effects
Radio Engineering and Electronic Physics (USSR)
(translation of Radiotekhnika i Elektronika)
Radio Engineering and Electronics (USSR)
(translation of Radiotekhnika i Elektronika)
Radiology
Radio Science
Radiotekhnika i Elektronika [Radio Engineering
and Electronic Physics (USSR)]
Radiotekhnika i Elektronika [Radio Engineering
and Electronics (USSR)]
RCA Review
Reports on Progress in Physics
Review of Scientific Instruments
Reviews of Geophysics
Reviews of Modern Physics
Revue d'Optique, Theorique et Instrumentale
Russian Journal of Physical Chemistry
(translation of Zhurnal Fizicheskoi Khimii)

Science
Scientific American
Solar Physics
Solid State Communications
Solid State Physics
Solid-State Electronics
Soviet Astronomy
(translation of Astronomicheskii Zhurnal)

Phys. Z.
Phys. Z. Sowjetunion
Phys. Konden. Mater.

Pis'ma Astron. Zh. [Sov. Astron. Lett.]

Pis'ma Zh. Eksp. Teor. Fiz. [JETP Letters]

Pis'ma Zh. Tekh. Fiz. [Sov. Tech. Phys. Lett.]
Planet. Space Sci.
Plasma Phys.

Prib. Tekh. Eksp. [Instrum. Exp. Tech. (USSR)]
Proc. Cambridge Philos. Soc.
Proc. IEEE
Proc. IRE

Proc. Natl. Acad. Sci. U.S.A.
Proc. Phys. Soc. London

Proc. Phys. Soc. London, Sect. A

Proc. Phys. Soc. London, Sect. B
Proc. R. Soc. London

Proc. R. Soc. London, Ser. A
Prog. Theor. Phys.

Publ. Astron. Soc. Pac.

Radiat. Eff.

Radio Eng. Electron. Phys. (USSR)

Radio Eng. Electron. (USSR)
Radiology
Radio Sci.

Radiotekh. Elektron. [Radio Eng. Electron. Phys. (USSR)]

Radiotekh. Elektron. [Radio Eng. Electron. (USSR)]

RCA Rev.
Rep. Prog. Phys.
Rev. Sci. Instrum.
Rev. Geophys.
Rev. Mod. Phys.
Rev. Opt. Theor. Instrum.

Russ. J. Phys. Chem.

Science
Sci. Am.
Sol. Phys.
Solid State Commun.
Solid State Phys.
Solid-State Electron.

Sov. Astron.

Thin Solid Films	Thin Solid Films
Transactions of the American Crystallographic Society	Trans. Am. Cryst. Soc.
Transactions of the American Geophysical Union	Trans. Am. Geophys. Union
Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers	Trans. Am. Inst. Min. Metall. Pet. Eng.
Transactions of the American Nuclear Society	Trans. Am. Nucl. Soc.
Transactions of the American Society for Metals	Trans. Am. Soc. Met.
Transactions of the American Society of Mechanical Engineers	Trans. Am. Soc. Mech. Eng.
Transactions of the British Ceramic Society	Trans. Br. Ceramic Society
Transactions of the Faraday Society	Trans. Faraday Society
Transactions of the Metallurgical Society of AIME	Trans. Metall. Soc. AIME
Transactions of the Society of Rheology	Trans. Soc. Rheol.
Ukrainian Physics Journal	
[translation of Ukrainskii Fizicheskii Zhurnal (Russian Edition)]	Ukr. Phys. J.
Ukrainian Fizicheskii Zhurnal (Russian Edition) [Ukrainian Physics Journal]	Ukr. Fiz. Zh. (Russ. Ed.) [Ukr. Phys. J.]
Ultrasonics	Ultrasonics
Uspekhi Fizicheskikh Nauk [Soviet Physics-Uspekhi]	Usp. Fiz. Nauk [Sov. Phys. Usp.]
Wuli Xuebao (Acta Physica Sinica) [Chinese Journal of Physics]	Wuli Xuebao (Acta Phys. Sin.) [Chin. J. Phys.]
Yadernaya Fizika [Soviet Journal of Nuclear Physics]	Yad. Fiz. [Sov. J. Nucl. Phys.]
Zeitschrift für Analytische Chemie	Z. Anal. Chem.
Zeitschrift für Angewandte Physik	Z. Angew. Phys.
Zeitschrift für Anorganische und Allgemeine Chemie	Z. Anorg. Allg. Chem.
Zeitschrift für Astrophysik	Z. Astrophys.
Zeitschrift für Elektrochemie	Z. Elektrochem.
Zeitschrift für Kristallographie, Kristallgeometrie, Krystallphysik, Kristallchemie	Z. Kristallogr. Kristallgeom. Krystallphys. Kristallchem.
Zeitschrift für Metallkunde	Z. Metallk.
Zeitschrift für Naturforschung	Z. Naturforsch.
Zeitschrift für Naturforschung, Teil A	Z. Naturforsch. Teil A
Physik, Physikalische Chemie, Kosmophysik	Z. Phys.
Zeitschrift für Physik	
Zeitschrift für Physikalische Chemie (Frankfurt am Main)	Z. Phys. Chem. (Frankfurt am Main)
Zeitschrift für Physikalische Chemie (Leipzig)	Z. Phys. Chem. (Leipzig)
Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki [Soviet Physics-JETP]	Zh. Eksp. Teor. Fiz. [Sov. Phys. JETP]
Zhurnal Fizicheskoi Khimii [Russian Journal of Physical Chemistry]	Zh. Fiz. Khim. [Russ. J. Phys. Chem.]
Zhurnal Prikladnoi Spektroskopii [Journal of Applied Spectroscopy (USSR)]	Zh. Prikl. Spektrosk. [J. Appl. Spectrosc. (USSR)]
Zhurnal Tekhnicheskoi Fiziki [Soviet Physics-Technical Physics]	Zh. Tekh. Fiz. [Sov. Phys. Tech. Phys.]