

## From the Editorial Board

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A special session of the Editorial Board of *Physics – Uspekhi* (its oral issue) celebrating the 90th anniversary of the journal and the 50th anniversary of its English version took place on November 19, 2008 in the conference hall of the P N Lebedev Physical Institute (FIAN) of the Russian Academy of Sciences. The following reports were presented at the session:

(1) **Ginzburg V L** (P N Lebedev Physical Institute, RAS, Moscow), **Aksent'eva M S** (Uspekhi Fizicheskikh Nauk, RAS, Moscow) “On the history of UFN (introductory talk)”;

(2) **Dremin I M** (P N Lebedev Physical Institute, RAS, Moscow) “The physics of the Large Hadron Collider”;

(3) **Shirkov D V** (Joint Institute for Nuclear Research, Dubna, Moscow region) “Pair correlations and spontaneous symmetry breaking”;

(4) **Smirnov B M** (Institute for High Temperatures, RAS, Moscow) “Modeling of gas-discharge plasma”;

(5) **Sadovskii M V** (Institute of Electrophysics, RAS Ural Branch, Ekaterinburg) “High-temperature superconductivity in iron-based layered compounds”;

(6) **Aleksandrov E B** (All-Russian Research Center ‘S I Vavilov State Optical Institute’, St.-Petersburg) “Physical limits in the metrology of a magnetic field by atomic spectroscopy techniques”;

(7) **Maksimov E G** (P N Lebedev Physical Institute, RAS, Moscow) “Microscopic studies of the nature of the ferroelectric transition”;

(8) **Fortov V E** (Institute for High Energy Density, RAS, Moscow) “Extreme states of matter”.

We plan to publish reports Nos 1–4 and 6–8 in one of the 2009 issues of *Physics – Uspekhi*, while report No. 5 is published in the present issue for reasons specified in the Editor-in-Chief's foreword to this article. We received letters of congratulations from the Physical Sciences Division of the Russian Academy of Sciences (RAS), the Russian Federation State Research Center ‘Institute for High-Energy Physics’ (Protvino, Moscow region), the International Intergovernmental Organization ‘Joint Institute for Nuclear Research’ (Dubna, Moscow region), the G I Budker Institute of Nuclear Physics, RAS (Novosibirsk), the A F Ioffe Physical–Technical Institute, RAS (Saint-Petersburg), and the A M Prokhorov Institute of General Physics, RAS (Moscow), as well as a congratulatory telegram from the E K Zavoiskii Kazan' Physical–Technical Institute of the RAS Kazan' Research Center. The Editorial Board received the commemorative V Ya Struve medal awarded by the Learned Council of the Central Astronomical Observatory at Pulkovo, RAS (Saint-Petersburg). The texts of the letter of congratulations from the Physical Sciences Division of the Russian Academy of Sciences and a number of other letters are shown as illustrations below.

The full texts of all letters of congratulations will be found on the UFN site [www.ufn.ru/ufn90.html](http://www.ufn.ru/ufn90.html).



At the jubilee session of the Editorial Board of *Physics – Uspekhi*.

*To the Editorial Board  
of the Uspekhi Fizicheskikh Nauk journal  
To Editor-in-Chief  
Academician V L Ginzburg*

*Dear Vitaly Lazarevich!*

*The Physical Sciences Division of the Russian Academy of Sciences sends its congratulations to the Editorial Board and to all editors, authors, and readers of the Uspekhi Fizicheskikh Nauk journal on the occasion of the 90th anniversary of printing the first issue of the journal.*

*Topical reviews and original research papers published in Uspekhi Fizicheskikh Nauk have been enormously influential for the formation of the scientific picture of the world and for the maturing of several generations of physicists in this country. The journal has made important contributions to the creation and progress of powerful schools of physics in our country, which have gained worldwide recognition through their excellent scientific results.*

*Throughout the past years all significant events in the life of the scientific community, all outstanding achievements of scientists in Russia and in other countries have found their place on the pages of your journal. The fame of your journal is international, it is regarded as one of the leading scientific journals of the international physics community.*

*In this celebration of your jubilee, the Physical Sciences Division of the Russian Academy of Sciences expresses its high appreciation of the efforts of the Editorial Board, the editorial staff, and the authors of the journal who strive to further increase the level of physical research in this country, to promote practical utilization of achievements of scientists, and to intensify international ties.*

*We hope the journal — the members of the Editorial Board, editors, authors, and readers — continue embracing new scientific achievements, giving a spectacular presentation of these achievements in Uspekhi Fizicheskikh Nauk, as well as good health and happiness.*

Academician-Secretary  
of the Physical Sciences Division  
of the Russian Academy of Sciences

Academician V A Matveev



МЕЖДУНАРОДНАЯ МЕЖПРАВИТЕЛЬСТВЕННАЯ ОРГАНИЗАЦИЯ  
INTERNATIONAL INTERGOVERNMENTAL ORGANIZATION  
ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ  
JOINT INSTITUTE FOR NUCLEAR RESEARCH

Генеральный директор ИЯИ  
Академик Гинзбург В.Л.

Глубокоуважаемый Виталий Лазаревич!  
Глубокоуважаемые коллеги!

Дирекция Объединенного института ядерных исследований сердечно поздравляет Вас и весь славный коллектив журнала УФИ с значительным юбилеем!

УФИ имеет богатую историю, давнее традицию и по праву считается одним из ведущих научных журналов не только в России, но и во всем мировом научном сообществе. Ученые Дубны гордятся тесным и дружеским сотрудничеством с коллегами из «Успенки»... и надеются на его плодотворное продолжение.

Искренне живлю всему коллективу журнала УФИ бодрого успеха, новых творческих достижений и благополучия.

С искренним уважением,

Директор,  
член Президиума РАН,  
академик

А.Н. Сисакян

To Editor-in-Chief  
Academician V L Ginzburg

Dear Vitaly Lazarevich! Dear colleagues!  
The Directorate of the Joint Institute for Nuclear Research congratulates you and your entire wonderful team of the UFN journal on this fantastic jubilee!

The history of UFN is long and rich in traditions of long standing. The journal fully deserves its reputation as one of the best journals, not only in Russia but also across the international research community. The scientists at Dubna are proud of the close and friendly collaboration with their colleagues at Uspekhi and hope to continue this fruitful cooperation.

I sincerely wish the team that puts together UFN huge success, new creative achievements, and all the best.

With sincere respect,  
Director, member of RAS Presidium

Academician A N Sisakyan

Letter of congratulations from the Joint Institute for Nuclear Research (Dubna).



Физико-Технический Институт  
им. А.Ф. Иоффе  
Российская академия наук

Глубокоуважаемый Виталий Лазаревич!

Сотрудники физико-технического института им. А.Ф. Иоффе сердечно поздравляют Вас и коллектив редакторов и редакторов с 90-летним юбилеем журнала «Успехи физических наук».

Нам очень приятно эти поздравления и в то же время радостные дни, поскольку совсем недавно 27-31 октября в Санкт-Петербурге в ФТИ прошли юбилейные мероприятия, посвященные 90-летию юбиляра Института. Так что, уважаемый наш журнал, УФИ и УФН — родственники.

Создание УФИ — это дело знаменитого академика Федора Ивановича Иоффе. Отличительная черта одного из первых российских физико-технических журналов — это тесная связь с именами профессора Эдуарда Владимировича Шполского, который в 1936-75 возглавлял его как главный редактор.

УФН — это журнал, посвященный и посвященный физическим наукам, название которого действительно отражает его содержание. Журнал информирует науку общественность — ученые, аспиранты, преподаватели о быстро и динамично развивающейся области современной физики. В журнале мы регулярно находимся с прекрасными обзорами и оригинальными статьями, с персоналиями выдающихся ученых-физиков. Журнал с колоссальным, плодотворным творческим вкладом физический науки, без журнала УФИ создание современной физики невозможно представить себе без формирования целостного мировоззрения ученого-физика в России.

Поздравляя Вас и коллектив редакторов журнала с юбилеем, желаем всем Вам крепкого здоровья, благополучия и больших творческих успехов!

Надеемся, что сможем все вместе отпраздновать юбилей любимого нами журнала.

Искренне Ваши

Dear Vitaly Lazarevich:

All of us at the A F Ioffe Physical–Technical Institute from the bottom of our hearts congratulate you and your colleagues at the Editorial Board and the editors of UFN on the 90th anniversary of the journal Uspekhi Fizicheskikh Nauk!

We know quite well these tense, and at the same time happy, moments, as quite recently — October 27–31, 2008 — we had at the FizTekh a week's festive occasion of the jubilee celebrating the 90th anniversary of our institute, which shows that UFN, our much respected journal, and the FTI are the same age.

The FTI was the creation of the “brain and muscle” of Abram Fedorovich Ioffe. Similarly, the creation of one of the first Russian physics journals is closely tied with the name of Professor Eduard Vladimirovich Shpolsky who was its Editor-in-Chief from 1936 to 1975.

UFN is the journal that every graduate of FizTekh reads and cherishes; its title indeed tells you what you are to find inside. The journal informs the research community — scientists, postgraduates, teachers — of the rapidly progressing fields of modern physics. In its issues we regularly find excellent reviews and original research papers, as well as personalia of outstanding physicists. It would be impossible to train a physicist in Russia without a combined effect of publications dealing with specific fields of physics and UFN.

We congratulate you and members of the UFN Editorial Board on this jubilee, we wish you good health, satisfying lives, and much creative success!

We hope that all of us will be able to celebrate together the 100-year jubilee of the journal that we love dearly.

Sincerely yours, Director, Corresponding Member of the RAS, A G Zbrodskii

Letter of congratulations from the A F Ioffe Physical–Technical Institute.

ЛФК/В 119991 МОСКВА ЛЕНИНСКИЙ ПРОСПЕКТ ДОМ 53 ФИЗИЧЕСКИЙ ИНСТИТУТ  
ИМЕНИ П.Н. ЛЕБЕДЕВА РЕДАКЦИЯ ЖУРНАЛА УСПЕХИ ФИЗИЧЕСКИХ НАУК  
РУКОВОДИТЕЛЬ

ГЛУБОКОУВАЖАЕМЫЕ КОЛЛЕГИ  
ГЛУБОКОУВАЖАЕМЫЙ ВИТАЛИЙ ЛАЗАРЕВИЧ  
КОЛЛЕКТИВ КАЗАНСКОГО ФИЗИКО-ТЕХНИЧЕСКОГО ИНСТИТУТА ИМЕНИ Е.К. ЗАВОЙСКОГО КАЗАНЬ РОССИЙСКОЙ АКАДЕМИИ НАУК СЕРДЕЧНО ПОЗДРАВЛЯЕТ ВАС С ЮБИЛЕЕМ.

ТРУДНО ПРЕДСТАВИТЬ СЕГОДНЯ НАШЕ НАУЧНОЕ СООБЩЕСТВО БЕЗ УФИ В ТОМ ВОРМАТЕ И ТОГО КАЧЕСТВА, ЧТО ВЫ СУМЕЛИ СОЗДАТЬ. МЫ ПОЗДРАВЛЯЕМ ВАС С ЭТИМ ЧТО, АВТОРИТЕТ ВАШЕГО ЖУРНАЛА НЕОБЫКНОВЕННО ВЫСОК. МОЖНО БЕЗ КОЛЕБАНИЯ СКАЗАТЬ, ЧТО УФИ — ЭТО ЗЕРКАЛО СОВРЕМЕННОГО СОСТОЯНИЯ ФИЗИЧЕСКИХ НАУК, ПЕРСПЕКТИВНЫХ НАПРАВЛЕНИЙ ФИЗИКИ. НО ВАШ ЖУРНАЛ НЕОБХОДИМ НЕ ТОЛЬКО ФИЗИКАМ, ОН ВЛИЯЕТ НА УМЫ ВСЕГО НАШЕГО ОБЩЕСТВА. В ЭТОМ, НЕСОМНЕННО, ЗАСЛУГИ КОЛЛЕКТИВА.

ПОЛЬЗУЯСЬ ЗАМЕЧАТЕЛЬНЫМ ПОВОДОМ, СОТРУДНИКИ КАЗАНСКОГО ФИЗИКО-ТЕХНИЧЕСКОГО ИНСТИТУТА ОТ ВСЕЙ ДУШИ ЖЕЛАЮТ ВАМ НОВЫХ БОЛЬШИХ ТВОРЧЕСКИХ УСПЕХОВ, ЗДОРОВЬЯ И БЛАГОПОЛУЧИЯ-ДИРЕКТОР КЭТИ КАЗАНЬ ЧЛЕН-КОРРЕСПОНДЕНТ РАН К.М. САЛИХОВ-НИН 1939 17.11 00Ч0

Dear colleagues:

Dear Vitaly Lazarevich:

All of us at the E K Zavoiskii Kazan' Physical–Technical Institute of the RAS Kazan' Research Center congratulate you from the bottom of our hearts on this jubilee.

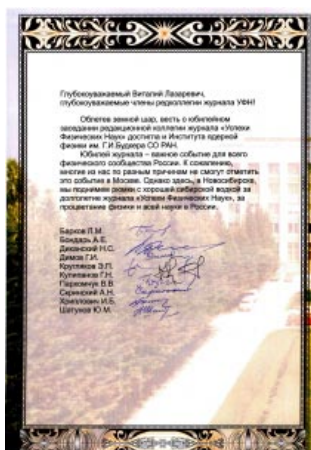
Nowadays it would be difficult to imagine our research community without UFN, in the format and of the quality that you have been able to create. We congratulate you on the highest reputation and standing that your journal enjoys. We do not hesitate to state that UFN is a mirror of the current status of the physical sciences and of promising areas of research. In fact, your journal is in demand not only by physicists — it affects the way people think in the entire society.

We at the Kazan' Physical–Technical Institute use this excellent opportunity to wish you new important achievements in your creative work, as well as good health and all the best.

Director, Corresponding Member of the RAS, K M Salikhov

Telegram from the E K Zavoiskii Kazan' Physical–Technical Institute to the UFN journal.





Dear Vitaly Lazarevich:  
Dear members of the Editorial Board  
of the journal *UFN*:

*The news of the jubilee session of the Editorial Board of the journal Uspekhi Fizicheskikh Nauk, having travelled all over the globe, also reached the G I Budker Institute of Nuclear Physics of the Siberian Branch of the Russian Academy of Sciences.*

*A jubilee of your journal is an important event for the entire Russian physics community. It is unfortunate that many of us will, for various reasons, be unable to celebrate this occasion in Moscow. However, we here in Novosibirsk raise our glasses of excellent Siberian vodka and drink to many years of health and success of the journal Uspekhi Fizicheskikh Nauk, and of physics and science as a whole in Russia.*



Diploma No. 20

*The commemorative medal of V Ya Struve, the founder and first Director of the Central Astronomical Observatory at Pulkovo, is awarded for the outstanding contribution to advancement of physics and the study of the Universe to the Editorial Board of the journal Uspekhi Fizicheskikh Nauk*

Learned Council of the Central  
Astronomical Observatory at Pulkovo  
of the Russian Academy of Sciences  
Director *A V Stepanov*  
Pulkovo 2008



Congratulations from the G I Budker Institute of Nuclear Physics of the Siberian Branch of the Russian Academy of Sciences (L M Barkov, A E Bondar', N S Dikanskii, G I Dimov, E P Kruglyakov, G N Kulipanov, V V Parkhomchuk, A N Skrin'skiy, I B Khriplovich, Yu M Shatunov).

Also present were authors, editors, referees, translators, and staff members of the journal *Uspekhi Fizicheskikh Nauk*, who have published in or worked with the journal *UFN* for a number of years, and also friends and colleagues of the *UFN* team.

Authors<sup>1</sup> constitute the main asset of *UFN*. It was their effort that made it possible for *UFN* to gain its current reputation with the international research community in the

<sup>1</sup>Among the authors of the journal we rightfully count also 'compiler-authors', legally defined as a person or a group of persons who expertly select, evaluate, assemble, and arrange the material. In the case of journals, these are referees and members of the Editorial Board who select and review all articles, and also the editorial staff of the journal who execute the final layout and presentation of the material in the journal.

90 years of its existence. This reputation finds its expression in the high rating of the journal (and high impact factor of *UFN*) and in the large number of hits on the papers that we place at our site on the Internet.

The Editorial Board of the journal greatly appreciates the collaboration with our authors and is thankful to all *UFN* authors who have built its high reputation among scientists over these 90 years.

Many authors responded positively to the invitation to take part in the jubilee session and those who were unable to take part in person sent their photos for a "collective portrait" of the *UFN* author, along with warm words of congratulations, wishes, or reminiscences. They are all placed on the *UFN* Internet site ([www.ufn.ru/ufn90.html](http://www.ufn.ru/ufn90.html)).

Among those who were present at the session were also representatives of the Physical Sciences Division of the RAS, of many institutes related to physics, and our colleagues and partners from other journals and publishers, who offered many a warm word. We are grateful to everyone who took part in our joint celebration, whether in person or virtually.

It goes without saying that launching such a large-scale undertaking (530 authors responded to the 1267 invitations sent out, of which 258 authors intended to take part in the session in person) would have been impossible without massive help from our colleagues and friends! We are enormously thankful to all staff members and friends of the editorial team of the *UFN* journal who helped us in preparing and conducting every phase of the jubilee session!

We expect to have you all at the 100th anniversary celebration of *UFN*!