Dear readers,

This issue of the journal honors the outstanding scientist in the field of gears, the Distinguished Professor Emeritus in the Department of Mechanical and Industrial Engineering of the University of Illinois at Chicago (UIC), an Honorary Doctor of Miscolc University, the Director of Gear Research Center, Doctor of Technical Sciences Faydor L. Litvin, whose name is the symbol of theory of gearing for more than 40 years.

Prof. F.L. Litvin celebrated his 90 anniversary on February, 11, 2004. We are glad to congratulate him with this event and wish him the robust health, inherent stamina and enthusiasm, many new achievements in the science and practice of gearing.

A whole epoch in the theory of gearing is concerned with the name of Professor F.L. Litvin. He is the author of one of the most fundamental and cited works in this field—a well-known monograph “Theory of gearing”, which underwent 6 editions, 2 of them were in Russia (1961, 1968), 2 were in the USA (1989, 1994), 1 was in China (1984) and 1 was in Hungary (1973). To many experts these books became the main source of knowledge concerning both the theory of gearing and scientists who created this theory.

It would be wrong to choose who should be more proud of Prof. F.L. Litvin: Russia, where he was born and had lived for 65 years, becoming an outstanding scientist, or the USA, where his authority of the great scientist strengthened and his talent of a researcher and teacher revealed to the utmost. All the world society of scientists, engineers and experts in the field of gears may be proud of Professor F.L. Litvin. And, of course, the Editorial Board of the Journal "Gearing and Transmissions" is pleased that Prof. Litvin is its member.

This issue of the journal presents the papers of Prof. F.L. Litvin and his colleagues and students. These papers were previously published in the journal "Computer methods in applied mechanics and engineering" (2001, 2002). We are thankful to Prof. F.L. Litvin and his coauthors for the permission to re-issue them in Russian and in English and for the opportunity to present them to experts from many countries.

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Уважаемые читатели,

Настоящий выпуск журнала подготовлен в честь выдающегося ученого в области зубчатых передач, чье имя уже более 40 лет является символом теории зубчатых зацеплений, почетного профессора механико-технологического департамента Чикагского университета в Илинойсе (UIC), почетного доктора Мишкольцского университета, директора Центра исследования передач доктора технических наук Файдора Львовича Литвина.

11 февраля 2004 года профессуру Литвину исполнено 90 лет. Мы рады поздравить юбиляра с этой датой и пожелать ему крепкого здоровья, присущего ему энергии и увлеченности, многих новых достижений в науке и практике зубчатых передач.


Было бы неправильно говорить о том, кому гордиться больше — России, в которой Ф.Л. Литвин родился и прожил 65 лет, став выдающимся ученым, или США, где укрепился авторитет великого ученого и еще более раскрылся его талант исследователя и учителя. Профессором Ф.Л. Литвинным может гордиться все мировое сообщество ученых, инженеров, специалистов, занимающихся зубчатыми передачами. И конечно, редакционный совет журнала "Передачи и трансмиссии" гордится тем, что проф. Литвин является его членом.

В этом выпуске журнала мы публикуем статьи проф. Ф.Л. Литвина и его коллег и учеников. Эти статьи были ранее опубликованы в журнале "Computer methods in applied mechanics and engineering" (2001, 2002). Мы благодарим проф. Ф.Л. Литвина и его соавторов за разрешение опубликовать эти работы на русском и английском языках и возможность познакомиться с ними специалистов разных стран.

Мы благодарим члена редакционного совета журнала С.А. Лагутина за помощь в подготовке этого выпуска.