

ПАМЯТИ БАИРА СЫДЫПОВИЧА БАЛЬЖИНИМАЕВА

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Редколлегия и редакция журнала «Катализ в промышленности» с прискорбием сообщает, что 19 октября 2020 г. на 71-ом году жизни скоропостижно ушел из жизни доктор химических наук, заместитель главного редактора журнала Бальжинимаев Баир Сыдыпович.

Б.С. Бальжинимаев родился в 1950 г. В 1973 г. окончил факультет естественных наук Новосибирского государственного университета. Вся трудовая деятельность Б.С. Бальжинимаева связана с Институтом катализа, где он прошел путь от стажера-исследователя до заместителя директора по научной работе. В 1978 г.

им была защищена кандидатская диссертация, а в 1991 г. — докторская диссертация на тему «Применение релаксационных методов в гетерогенном катализе». До настоящего времени Б.С. Бальжинимаев был заведующим лабораторией исследования и испытания новых материалов в катализе и главным научным сотрудником Института катализа СО РАН.

Б.С. Бальжинимаев являлся крупным специалистом в области гетерогенного катализа, автором свыше 200 статей в рецензируемых журналах, более 50 патентов. Им развито перспективное направление — исследование механизмов каталитических реакций с помощью кинетических релаксационных и изотопно-динамических методов в сочетании с различными физическими методами. Разработаны и применены теоретические и экспериментальные подходы для ряда конкретных реакций парциального окисления углеводородов, включая окисление C–H-связей в низших парафинах, окисление диоксида серы, селективное восстановление оксидов азота, эпексидирование этилена молекулярным кислородом и т.п. В своих работах Б.С. Бальжинимаеву удалось на атомно-молекулярном уровне установить количественную взаимосвязь между скоростью реакции, составом адсорбированного слоя и характеристиками состояния катализатора. Базируясь на этих результатах, разработаны и реализованы подходы к молекулярному дизайну высокоэффективных катализаторов получения серной кислоты, оксида этилена.

В последнее время научная деятельность Б.С. Баль-



жинимаева была сконцентрирована на поисковых работах, связанных с разработкой эффективных катализаторов на основе новых материалов, таких как синтетический углерод, стекловолокна, нанодисперсные металлы и т.п. В результате найдены новые композиты, проявляющие высокие активность и селективность в различных реакциях. Среди них особое место занимают катализаторы для эпексидирования легких олефинов, очистки отходящих газов промышленности от вредных соединений, селективного гидрирования ацетиленовых углеводородов, новых процессов синтеза

винилхлорида, процесса получения легких олефинов из природного газа.

Под его руководством были коммерциализованы катализаторы производства серной кислоты и очистки газовых выбросов от вредных веществ.

Являясь заместителем директора Института по научной работе с 1997 г. по 2015 г., Б.С. Бальжинимаев обеспечил развитие научно-технического сотрудничества с рядом ведущих химических и нефтехимических компаний США, Европы, Японии, Южной Кореи и ЮАР. В результате его деятельности было заключено и реализовано несколько десятков исследовательских и лицензионных контрактов. Под его руководством выполнялся ряд государственных контрактов, направленных на создание эффективных производств в сфере реальной экономики страны.

Б.С. Бальжинимаев принимал активное участие в подготовке научных кадров. Под его руководством были защищены 8 кандидатских диссертаций.

Б.С. Бальжинимаев являлся членом Ученого совета Института катализа, заместителем председателя диссертационного совета, экспертом научных проектов Российской академии наук, членом Научного совета по катализу РАН.

Мы будем помнить о нем всегда как о человеке с безграничной жизненной энергией, наполненном новыми перспективными идеями и посвятившем всю свою жизнь служению науке и России.

Память о Баире Сыдыповиче Бальжинимаеве навсегда останется в сердцах его учеников и коллег.

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