Евгений Михайлович Дианов

(31.01.1936 — 30.01.2019)

30 января 2019 года на восемьдесят третьем году жизни после тяжелой продолжительной болезни скончался академик Евгений Михайлович Дианов, один из основоположников современной волоконной оптики, лазерной физики и оптического материаловедения в России, основатель Научного центра волоконной оптики Российской академии наук, его многолетний директор и научный руководитель.

Е.М. Дианов родился 31 января 1936 года в селе Красное Тульской области в учительской семье. В 1960 году, после окончания Физического факультета Московского государственного университета им. М.В. Ломоносова, он начал работу в Лаборатории колебаний Физического института им. П.Н. Лебедева АН СССР. После защиты кандидатской диссертации в 1966 году продолжил научные исследования под непосредственным руководством Нобелевского лауреата академика А.М. Прохорова.

Первой крупной работой Е.М. Дианова стало создание и внедрение в производство атермального лазерного стекла с неодимом, обеспечивающего высокую направленность лазерного излучения. За эту работу в 1974 году вместе с сотрудниками Государственного оптического института им. С.И. Вавилова (ГОИ) и Лыткаринского завода оптического стекла он был удостоен Государственной премии СССР.

В те годы в мире происходило зарождение волоконной оптики как ветви квантовой электроники. По предложению А.М. Прохорова, в 1972 году Евгений Михайлович возглавил работы по созданию технологии получения волоконных световодов с малыми оптическими

потерями на основе кварцевого стекла (совместно с Институтом химии АН СССР) и исследованию физических свойств таких световодов. С тех пор Е.М. Дианов целиком посвятил свой талант и энергию волоконной оптике. Уже в 1975 году им были получены первые отечественные световоды, соответствующие мировому уровню, а несколько позже – радиационно стойкие, высокопрочные, металлизированные, активные и другие типы световодов, часто по своим свойствам превосходящие мировой уровень. Работы Е.М. Дианова, многие из которых выполнены в сотрудничестве с Институтом химии высокочистых веществ им. Г.Г. Девятых РАН (ИХВВ РАН), получили широкое мировое признание.

С 1983 года Евгений Михайлович работал в Институте общей физики АН СССР (позже ИОФ РАН). С 1988 по 1998 год был заместителем директора института. В 1994 году избран директором Научного центра волоконной оптики при ИОФ РАН.

Евгений Михайлович с соавторами детально изучил нелинейное распространение лазерного излучения в световодах, в том числе, провел исчерпывающее теоретическое и экспериментальное исследование генерации и распространения солитонов в световодах. Им открыт эффект ВКР-саморассеяния солитонов, впервые дано теоретическое описание их взаимодействия на расстоянии, установлено, что это взаимодействие обусловлено эффектом электрострикции. Под руководством Е.М. Дианова впервые в мире была экспериментально осуществлена генерация высокочастотной последовательности солитонов в световодах. Эти исследования заложили физические основы для использования солитонов в протяженных линиях оптической связи и привели к созданию волоконных лазеров ультракоротких импульсов. Под его научным руководством разработаны высокоэффективные волоконные ВКР-усилители для линий оптической связи и волоконные ВКР-лазеры, способные генерировать излучение в широкой спектральной области 0,92-2,2 мкм.

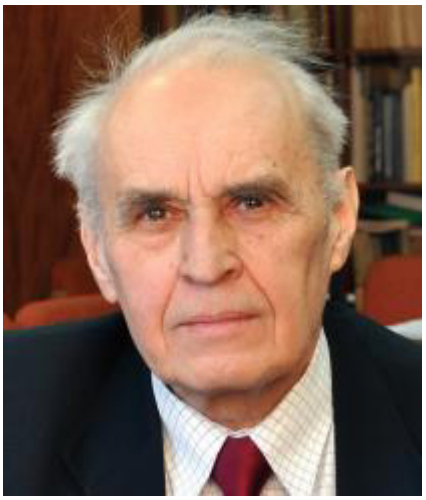
Е.М. Дианову с соавторами разработаны различные модификации микроструктурированных и фотоннокристаллических волоконных световодов с уникальными дисперсионными свойствами, а также полые волоконные световоды с малыми оптическими потерями и оригинальным физическим механизмом удержания света в полой сердцевине (т.н. «револьверные» световоды). Эти инновационные световоды востребованы как среда для передачи лазерного излучения, генерациии широкополосного когерентного излучения («суперконтинуума»), а также для применения в датчиках и доставки излучения в медицине и научных исследованиях.

Среди достижений Евгения Михайловича – разработка и исследование халькогенидных и поликристаллических световодов из галогенидов серебра для среднего ИК диапазона. Научные и практические результаты в этой области, полученные совместно с сотрудниками ИХВВ РАН и АО «НПО Государственного оптического института им. С.И. Вавилова» (ГОИ), были отмечены в 1998 году Государственной премией РФ.

Последним ярким достижением Е.М. Дианова стали волоконные световоды, легированные висмутом, – новый тип активных волоконных световодов. В 2005 году он с соавторами впервые в мире наблюдал лазерную генерацию в этой новой лазерной среде. Его дальнейшие исследования показали, что «висмутовые» световоды позволяют эффективно генерировать и усиливать оптический сигнал в широкой спектральной области 1,15-1,8 мкм, в том числе на длинах волн, на которых традиционные активные световоды неприменимы. Разработанные Е.М. Диановым «висмутовые» световоды открывают возможности для использования в оптической связи значительно более широкого спектрального интервала, что приведет к повышению скорости передачи информации.

Сложившаяся за четыре десятилетия научная школа Е.М. Дианова заслуженно считается одной из ведущих в мире. Среди учеников Евгения Михайловича – 2 члена-корреспондента РАН, 10 докторов и более 70 кандидатов наук. «Выпускники» школы Е.М. Дианова работают в научных и промышленных организациях в России и по всему миру.

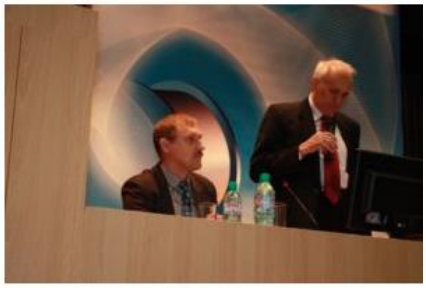
В последние годы Евгений Михайлович много времени и сил уделял организации промышленного производства волоконных световодов и волоконно-оптических датчиков в России. При Минпромторге РФ под его руководством функционировала Рабочая группа по развитию производства оптического волокна. Он внес существенный вклад в создание промышленного производства ряда видов специальных волоконных световодов, а также волоконно-оптических гироскопов в Пермской научно-производственной приборостроительной компании. При его непосредственном участии впервые в стране в АО «Оптиковолоконные Системы» (г. Саранск) было запущено промышленное производство стандартных волоконных световодов для оптической связи. Также под научным руководством Е.М. Дианова в АУ «Технопарк-Мордовия» (г. Саранск) был создан Инжиниринговый центр волоконной оптики, где ведутся работы по организации производства специальных волоконных световодов для волоконных лазеров, датчиков и других актуальных применений.

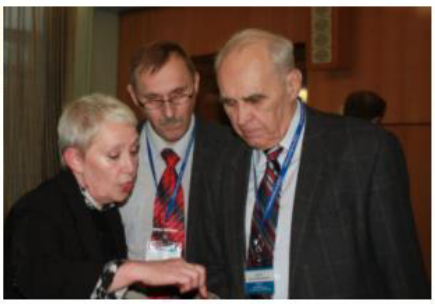


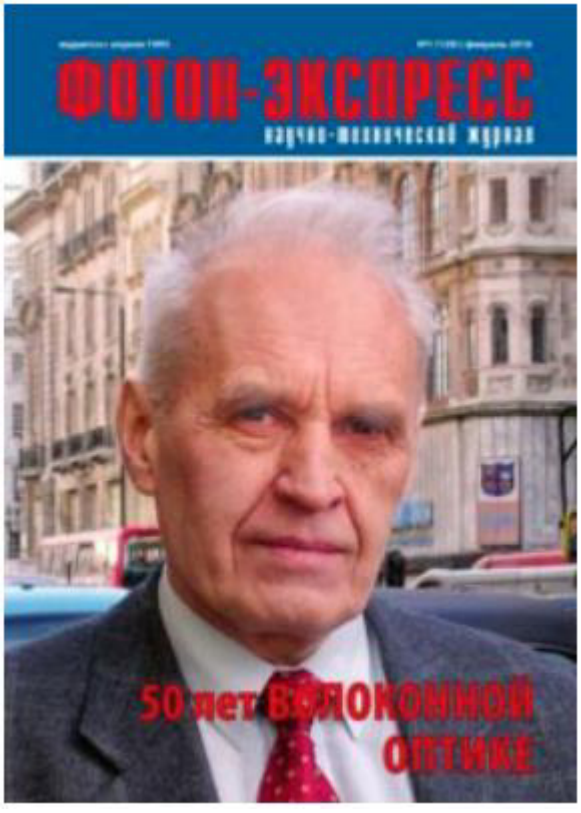
В 1987 году Е.М. Дианов был избран членом-корреспондентом АН СССР, в 1994 году – академиком РАН. С 2002 по 2013 год он был членом Президиума РАН и на протяжении многих лет – членом бюро Отделения химии и наук о материалах РАН. С момента образования Научного центра волоконной оптики РАН (НЦВО РАН) в 1993 г. и до 2015 г. Е.М. Дианов был его бессменным директором.

Научные достижения Е.М. Дианова, его научно-организационная деятельность отмечены многими отечественными и зарубежными премиями, званиями и наградами, включая орден «За заслуги перед Отечеством» IV степени, орден «Знак Почета», орден «Дружбы», две Государственные премии, Золотую медаль РАН им. С.И. Вавилова, премию АН СССР им. А.С. Попова, премию АН СССР–АН ГДР, а также премию IEEE Photonics Society – Optical Society of America им. Джона Тиндаля.

Евгений Михайлович был членом Совета Государственной Думы по инновациям, Председателем Всероссийской конференции по волоконной оптике, членом редколлегии многих отечественных и зарубежных научных журналов, он регулярно приглашался в программные комитеты отечественных и зарубежных конференций, постоянно выступал с приглашенными докладами. Е.М. Дианов был членом международных научных обществ OSA, IEEE, MRS и ACerS.



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