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The purpose of the above-named grant was to bring together several leading theoretical and experimental researchers in the field of silicon chemistry in order to promote interactions and to identify key problems in the field of silicon chemistry. The meeting was held in October, 1987. The theoreticians were represented by those who use semi-empirical electronic structure methods (L.P. Davis, L. W. Burggraf) and those who use <i>ab initio</i> methods (M. S. Gordon, K. K. Baldrige). Experimental groups represented include gas phase organosilicon chemistry (R. Damrauer, C. H. DePuy, R. Holmes), condensed phase organosilicon chemistry (P. Boudjouk, R. West), photochemistry (J. Michl), and composites (L. Hench, D. Ulrich).					
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AFOSR 87-0262 FINAL TECHNICAL REPORT

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All of the foregoing presented their recent work, as well as their thoughts regarding pressing problems in the field. To facilitate the interactions among the groups, group leaders were identified (Hench, Davis, A. Matuszko). These individuals very successfully led lively discussions. The result of these discussions was the generation of a list of key problems which must be attacked by joint research projects among the group. This list was distributed to all participants and to the AFOSR sponsor. It was generally agreed that a second meeting, perhaps with a slightly expanded group of participants, should be held in approximately 18-24 months.

A follow-up meeting of a subgroup of the participants (Burggraf, Davis, Damrauer, Gordon, Matuszko), was held at AFOSR March, 1988. This meeting was also attended by Dr. D. Ulrich.



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