hich have e *homolo*are termed

organic el, of St. dopted by (00-5-195.) re of these omologous d each horisuccessive st series are onp, etc.

 $C_6H_2$ 

es resemble milar trunsgents, and a 
owest to the 
ent, the lows at ordinary 
or more car-

bon-atoms, are solid, while the intermediate compounds are liquids, becoming more and more viscid and less volatile, as they contain a greater number of carbon-atoms, and exhibiting a constant rise of about  $20^{\circ}$  C. (36° F.) in their boiling points for each addition of CH<sub>2</sub> to the molecule.

The individual series are given in the following table, with the names proposed for them by A. W. Hoffmann:

Methane	Methene			
$CH_4$	$CH_2$			
Ethane	Ethene	Ethine		
$C_2H_6$	$\mathrm{C_2H_4}$	$C_2H_2$		
Propane	Propene	Propine	Propone	
$\mathrm{C_3H_8}$	$\mathrm{C_3H_6}$	$C_3H_4$	C <sub>3</sub> H <sub>3</sub>	
Quartano	Quartene	Quartine		Quartune
$C_4II_{10}$	$\mathrm{C_4H_8}$	$C_4II_6$	$C_4H_4$	C <sub>4</sub> H <sub>3</sub>
Quintano	Quintene	Quintine	Quintone	
$C_5H_{12}$	$\mathrm{C_5H_{10}}$	$\mathrm{C_5H_8}$	$C_5H_6$	$C_5H_4$
Sextane	Sextene	Sextine	Sextone	Sextune
$\mathrm{C_6H_{14}}$	$\mathrm{C_6H_{12}}$	$\mathrm{C_6H_{10}}$	$\mathrm{C_6H_8}$	$C_6H_6$

The formulæ in the preceding tables represent hydrocarbons all of which are capable of existing in the separate state, and many of which have been actually obtained. They are all derived from saturated molecules,  $C_nH_{2n+2}$ , by abstraction of one or more *pairs* of hydrogen-atoms.

But a saturated hydrocarbon, CH4, for example, may