A Science Service Feature

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? WHY THE WEATHER ?

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## KEEPING COOL

Keeping cool in hot weather requires some means of bringing the elimination of bodily heat up to the production. The automobile cooling system may be used as a homely example. Water, a highly fluid substance with a high capacity for heat, circulates from the heated interior of the engine through a finely divided radiator which is constantly being fanned. Under normal conditions heat can be taken from the radiator as fast as it is being produced inside. But if the motor has to burn an extra amount of fuel because of heavy work its internal heat production may exceed the cooling capacity ofthe radiator, and the engine and water become too hot. If the heavy work will soon be over we keep right on. But if there is much more we stop, open the hood, pour in some cool water, and perhaps wet down the outside of the radiator. Thus cooled the engine can soon work some more.

While the human machine is not so simple, it not being possible to shut down the heat production entirely, its cooling system and thoproper methods of treatment to avoid overheating are very much like the essentials of the auto's water system. If normal means of cooling such as fanning and cool water to drink fail to reduce the temperature, then we must resort either to wetting our skin radiator or to reducing our heat production by resting awhile. In a breeze a thin wet garment provides water for continued cooling by evaporation and makes possible some work which otherwise would be too heating.

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