

**HERMANN AND BEGONIA**

**SUPERCAPACITOR  
POWERS SUPERHERO**

BY P. TROILLAS

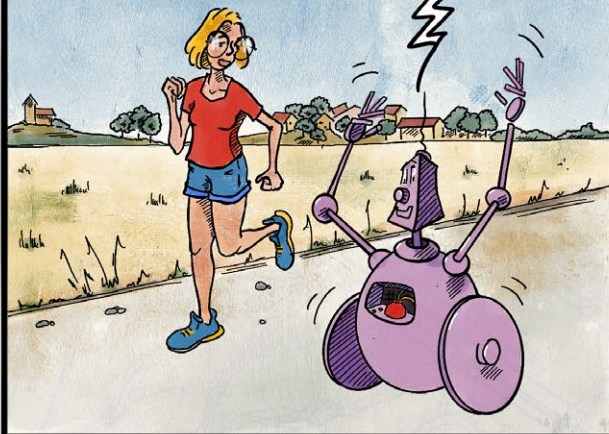


SOMEWHERE IN THE HANÁ REGION

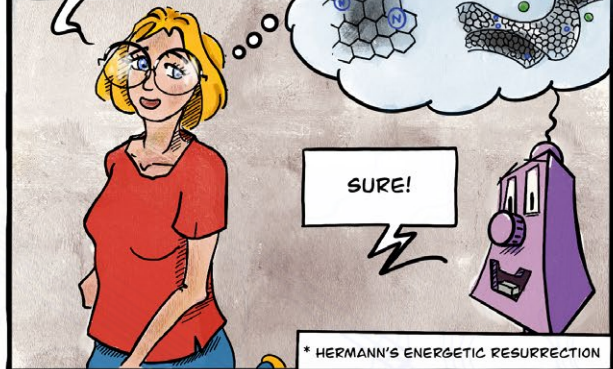
WHAT'S UP, HERMANN? YOU'RE DOING GREAT TODAY, RIGHT?



I'M POWERED BY A PROTOTYPE OF A NEW SUPERCAPACITOR WITH A GRAPHENE MATERIAL DEVELOPED AT CATRIN.

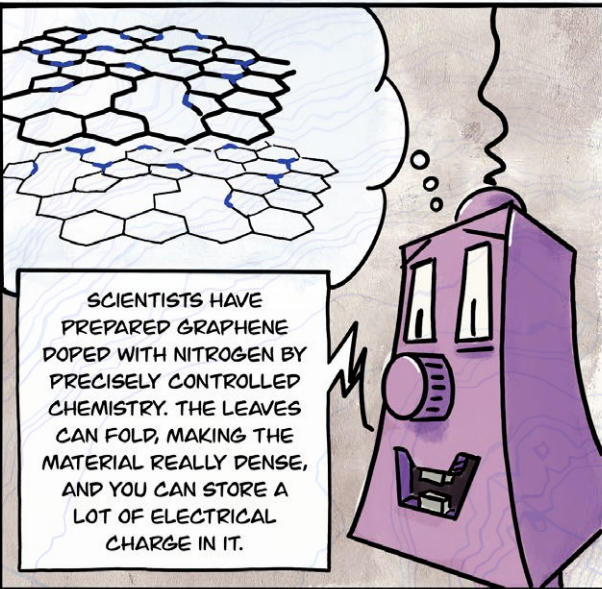


GRAPHENE, I REMEMBER. A THIN "LEAF" OF CARBON ATOMS, WITH EXCELLENT CONDUCTIVITY.\* CAN IT ALSO WORK FOR ELECTRICITY STORAGE?

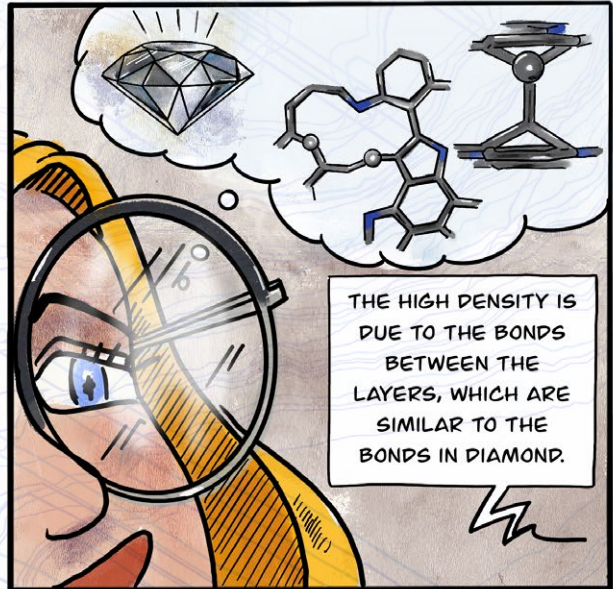


SURE!

\* HERMANN'S ENERGETIC RESURRECTION



SCIENTISTS HAVE PREPARED GRAPHENE DOPED WITH NITROGEN BY PRECISELY CONTROLLED CHEMISTRY. THE LEAVES CAN FOLD, MAKING THE MATERIAL REALLY DENSE, AND YOU CAN STORE A LOT OF ELECTRICAL CHARGE IN IT.



THE HIGH DENSITY IS DUE TO THE BONDS BETWEEN THE LAYERS, WHICH ARE SIMILAR TO THE BONDS IN DIAMOND.

