

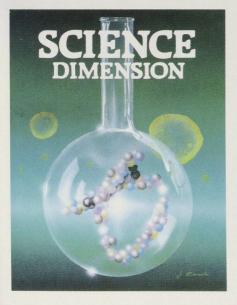
Conseil national de recherches Canada

SCIENCE DIMENSION

VOLUME 15, NO. 6, 1983

Editor Wayne Campbell
Managing Editor Margaret Shibley Simmons
Art Editor Jean L. Richard
Photographer Bruce Kane
Print Coordinator Robert Rickerd
Art Production Carisse Graphic Design Ltd.
Printed in Canada by Beauregard Press Ltd.

31159-2-1019



There was a time when only the human pancreas could produce a molecule of the protein proinsulin, the precurser to the hormone insulin. Now, all that has changed, thanks to a combination of chemistry and genetically engineered bacteria. Canadian scientists are on the verge of producing this molecule with the same ease as they make beer, and it's a simple enzymic step to convert the precurser to the active hormone. Getting to this stage might not have been easy but it was exciting, as the story on page 18 attests.

Capsules	4
Scheiner's halo, Saturn's rings, and Ice-nine Studying solar haloes	8
Project ÉOLE	11
Catching Gaspé's winds	
Freeing the robots	15
Automated welding research	
The making of human insulin	18
Great bats, small bats	28

Science Dimension (ISSN 0036-830X) is published six times a year by the Public Relations and Information Services of the National Research Council of Canada. Material herein is the property of the copyright holders. Where this is the National Research Council of Canada, permission is hereby given to reproduce such material providing an NRC credit is indicated. Where another copyright holder is shown, permission for reproduction should be obtained from that source. Enquiries should be addressed to: The Editor, Science Dimension, NRC, Ottawa, Ontario, Canada, K1A 0R6. Tel. (613) 993-3041. Indexed in the Canadian Periodical Index. This publication is available in microform. Cette publication est également disponible en français et porte le nom de Dimension Science.