



Flexible phones can save "slippery hands" phone users hundred of dollars of phone repairs and new phone purchases. This is all thanks to a material called graphene. *(Photo courtesy of Industry Tap)*

## Graphene for a Better Future

New graphene inventions advance lives of people all over the world

### BY VINCENT PHAM

Staff Reporter

Back in 2004, not many people could imagine that a substance extracted from graphite in a laboratory at the University of Manchester, would be so useful for society.

Fast forward to today, graphene has not only become the strongest material known to man, but a

material that has advanced technologies in many field of society.

“Graphene is simply amazing,” said Johnny Smith, a first-year university student at York University. “Back in 2017, people thought the iPhone X was incredible. Now, it is ancient thanks to their advancement.”

Graphene has allowed phones to be flexible. This

advancement has allowed regular “slippery-hands” phone users to save hundreds of dollars of phone repairs or even having to purchase new phones.

Not only so, graphene has also allowed phones to be charged at a much faster rate. Back in 2017, Samsung has said that it is looking into using graphene to make phone batteries that would be

fully charged within 12 minutes. Now many phones use the same material to charge batteries, charging them five-times faster than in the early 2000s.

Graphene has not only changed the phone industry but has also made an impact in security services.

“Our bullet-proof vests used a Horizon Security are 100 percent bullet proof,” Angelo Bocci, president of Horizon Security affirmed. “Since graphene is the strongest material in the world as of now, it can withstand any bullet. This assures men and women in the security field of their safety if a terrible situation arises.”

These bullet proof vests has not only been used at Horizon Security, but its use has expanded internationally. In a recent interview with the head of the Vatican Gendarme, the Swiss Soldiers, when not wearing their ceremonial gear, wear a graphene bullet proof vest.

Graphene has not only advanced the industrial world, but it has also advanced the lives of those in third world countries. A graphene sieve has now become familiar to many in underdeveloped countries, allowing them to desalinate water so they can drink.

“The graphene sieve has simplified the desalination process for many who live in third world countries,” said Mellissa O’Brien, a Focolare movement missionary who frequently goes to third world countries to help advance the lives of people who live there.

Though graphene has received much praise from various groups of people, some see it as a chance for weapon engineers to advance.

“I have that fear that the people behind the weapon-making industry will take advantage of graphene to make deadlier weapons,” said Joe Cello, a member of the Safety Council of Toronto. “Who knows what they have in store, graphene bullet?”

Despite possible abuse of graphene, “there is so much good that comes out of it that people should look at,” Angelina Scalia, a grade 11 student at St. Joseph’s College School remarked.

Graphene inventions is only the start of a new technological era. Who knows what might be on the agenda of scientists and engineers?

*(Pham, 16, is the technology reporter for The Chaminadian.)*



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