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Your File

N/A

Canadian Council of Motor Transport Administrators (CCMTA)  
Police Partnership Awards 2012  
2323 St. Laurent Blvd. Ottawa, Ontario  
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Attention: Valerie TODD

Our File

N/A

2013-02-14

Good day Ms. TODD

**Nomination of S/Sgt. David Domoney**

## CCMTA - Police Partnership Award

The Royal Canadian Mounted Police "F" Division Traffic Services would like to introduce S/Sgt. David Domoney as our nominee for the CCMTA - Police Partnership Award 2012.

### **Background**

S/Sgt. Domoney has dedicated the majority of his 22 year career in the Royal Canadian Mounted Police (RCMP) to traffic safety and enforcement within Saskatchewan and British Columbia.

His interest in traffic related duties advanced him to the Collision Analyst program, the Criminal Interdiction program, the Collision Reconstruction program and he is currently in charge of Traffic Services South for the Province of Saskatchewan.

While stationed in Terrace British Columbia he saw the benefit that a Rollover Simulator would provide to the community and moved forward to have one put into service for North District Traffic in British Columbia. He partnered with the Insurance Corporation of British Columbia, Auto Plan Brokers Association and the Road Health Organization who collectively added an Education component and funding to the program. The success of the Roll Over Simulator program that S/Sgt. Domoney developed within Traffic North was accepted as a best practice by Traffic South

who followed suite with a program of their own.

As a collision Reconstructionist in British Columbia S/Sgt. Domoney identified a need for testing vehicles through a controlled rollover collision. He was able to secure the use of an abandoned paved airstrip and partnered with a local towing company. He arranged for an engineered platform to be built, capable of carrying a vehicle that mounted on the front of a tow truck. The platform had a locking device that would keep the vehicle in place until a desired speed could be reached at which time the vehicle would be released from the platform and enter into a rollover action. The test vehicle was equipped with sensors that would monitor different aspects of crush within the vehicle and the data recorded on a computer. This testing project spanned two years and 52 different test vehicles were used. There has been significant data obtained so far that has been compared to data gathered at actual collision scenes and there are plans for more testing to take place. S/Sgt. Domoney has started a paper on the findings which he will publish once he has completed the data collection.

S/Sgt. Domoney was an active member of the local British Columbia Traffic Safety Committee which included members from the Ministry of Highways and ICBC. He was nominated for the British Columbia Chiefs of Police Award for Education in 2008, 2009 and was the recipient of the award in 2010. In 2010 S/Sgt. Domoney was nominated for the Premiers Award for Organizational Excellence in Traffic Safety and received the British Columbia Lieutenant Governors Award for Meritorious Service. He also received the R.C.M.P. Commissioners' Commendation for his dedication to researching rollover data during the two years he spent on the project in British Columbia.

In 2010 S/Sgt. Domoney accepted a transfer to F Division as the Collision Reconstruction program manager. Over the course of two years S/Sgt. Domoney did a complete overhaul of the reconstruction program through equipment upgrades and the expansion of the program by one full time reconstructionist and two collision analysts.

In 2012 he applied for and was promoted to S/Sgt. responsible for Traffic Services in Southern Saskatchewan.

### **Achievements in 2012**

Upon his arrival to Saskatchewan S/Sgt. Domoney brought forth a plan to use Unmanned Aerial Vehicles (U.A.V.) to photograph collision scenes. He received support through the Division Executive Committee and began to move the plan forward.

S/Sgt. Domoney was able to find two companies within Saskatchewan that manufactured U.A.V's. He began the program with one UAV and has grown the program to nine UAV's with various capabilities.

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Senior executive in Regina were provided with a demonstration of the potential usage that the U.A.V.'s had which included Collision Reconstruction, Crime Scene photography and visual recognizance at Emergency Response scenes.

RCMP Headquarters in Ottawa became aware of the efforts that S/Sgt. Domoney was making in this field. He presented on the U.A.V. program to the Senior Executive Committee in Ottawa and was appointed as the National coordinator for the UAV project.

S/Sgt. Domoney also presented to the R.C.M.P "K" Division, "D" Division and Calgary City Police. All of these agencies have since purchased a UAV to assist them with aerial photography primarily at motor vehicle collision scenes.

S/Sgt. Domoney continued to move the capabilities of the program forward. Saskatchewan Government Insurance (SGI) is our primary partner in Traffic Safety and Enforcement strategies. S/Sgt. Domoney partnered with SGI and the University of Regina (U of R) Faculty of Engineering in a photogrammetry research project. Funding was secured for the project and students at the U of R began working on the program. The program consisted of having a two dimensional Base Marker six feet square with 36 one foot squares resembling a checker board. The Base Marker would be placed near the collision scene and used as a reference point. Once the aerial photos were uploaded to a computer the program would allow the investigator to pick any two points within the photo and obtain a distance from one point to another.

There has been one test phase done. A mock collision scene was created at the University where the Base Marker was placed on the ground and the area flown and photographed by a U.A.V.; and at the same time S/Sgt. Domoney used the current survey methods to obtain measurements of the scene. The students were not provided with the scene measurements obtained by S/Sgt. Domoney. The data provided by the students was within 5 cm's of the measurements taken. There will be more testing phases to complete before this technology can be accepted. Once we have a program of this type we will minimize the time spent at a collision scene reducing the risk to the members and to the general public. The technology will allow measurements to be available years later if the matter goes to Criminal or Civil trial.

Each Traffic Reconstructionist within the province has been trained in the operation of the UAV's and there is one UAV assigned to each of them for use during collision reconstruction. S/Sgt. Domoney researched the administrative requirements for the use of U.A.V.'s and determined that the commercial use of UAV's was governed by Transport Canada. He contacted Transport Canada and was given the guidelines for a commercial application of a UAV. S/Sgt. Domoney was able to put together a training standard and

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weather permitting, each fatal or serious injury collision attended to by a Reconstructionist in Saskatchewan is photographed using a UAV. Reconstruction members have been able to identify skid marks from the UAV photographs that were not visible at ground level. The overall scene from the air provides a remarkable over view of the collision and allows all roads, signage, topography, skid marks and vehicle locations relative to the scene to be viewed simultaneously.

The success of the aerial photography at collision scenes caught the attention of Major Crimes and of the Emergency Response Team (ERT). UAV's have successfully flown crime scenes to provide an aerial overview of the scene and have been successful in locating submerged vehicles. They have been used by the ERT to fly over residential and commercial properties to provide real time information to team commanders at the site.

The UAV program has caught the attention of the media throughout Canada. S/Sgt. Domoney has been interviewed on the Radio, Television and Newspapers nationwide. The exposure through the media has brought public awareness to traffic safety by identifying the use of this technology in collision investigation.

S/Sgt. Domoney continues to expand the program and is currently working on the purchase of a UAV from California that has the capability of "Self flight". The engineering students continue to work on the photogrammetry program and are exploring the idea of three dimensional measurements.

S/Sgt. Domoney was recently asked to speak to the Police Aviation Asia Conference being held in Malaysia September 4<sup>th</sup> and 5<sup>th</sup> 2013. This event attracts 150 law enforcement officers from around Asia and focuses on Aviation, mainly helicopter operations.

In 2012 SGI had requested the RCMP to participate in an enforcement strategy that targeted primary highways in Saskatchewan during the September long weekend. S/Sgt. Domoney created a work plan that organized all Traffic Units to work on selected highways within specific areas. The plan was to make the police visible and to enforce the Traffic Safety Act on the major highways leading into and out of Saskatchewan. Dedicating these resources to this program resulted in no fatal collisions on the selected highways over the Labor Day long weekend compared to previous years where these highways did record a number of fatal and serious injury collisions over that time frame.

These long weekend enforcement strategies will continue into 2013 in an effort to reduce the fatal and serious injury collisions that occur on Saskatchewan highways during long weekends when traffic volumes are high and risks to the motoring public are heightened.

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S/Sgt. Domoney works hand in hand with the Manager of the SGI Traffic Safety Enforcement Program on a monthly Selective Traffic Enforcement Program. They determine an enforcement goal and choose an area within the Province where the enforcement will be focused over two days. This program engages the partnerships between the RCMP Traffic Service units, RCMP Detachments within the target area, Municipal Police, Canadian Pacific Railway Police and Canadian National Railway Police. The enforcement focus ranges from impaired drivers through to vehicle safety standards. One of the key components of these programs is the networking between the agencies.

S/Sgt. Domoney's most recent proposal to the Division Executive Committee was the development of a Collision Crash Investigative Team. This involves the partnering of detachments, Major Crimes, General Investigation Section and the Crown Prosecutors office. This team will respond to all serious collisions where the cause of the collision is believed to be a criminal act or the severity of the collision is such that the coordinated effort of the team will be required. Once implemented this team approach will reduce the investigational time frames associated to these types of collisions.

**Conclusion**

S/Sgt. Domoney has devoted the majority of his career to Traffic Safety and continues to do so. He has brought innovative ideas to Traffic Services in Saskatchewan and British Columbia that have been instrumental in traffic safety advancements.

Peer recognition is one of the highest forms of praise. We as an organization feel that S/Sgt. Domoney has and continues to devote his professional life to the advancement of technology in the field of Traffic Safety motivated by a genuine concern for the motoring public.

We thank you for the opportunity to bring S/Sgt. Domoney's accomplishments to your attention and hope that this nomination makes S/Sgt. Domoney the successful nominee.

Superintendent Ron PLOMP

O.I.C. Contract Policing / Assistant Criminal Operations Officer