THE IRISH HANG GLIDING ASSOCIATION

c/o Bantry, Killiney, Co. Dublin.

25th November, 1981

Mr. Kelleher,
Aeronautical Service,
Department of Transport,
Setanta Centre,
Dublin 2.

re: Fatal Accident, Rush Beach, 18/10/81

Dear Mr. Kelleher,

We enclose the Report of our Safety Officer, regarding the above accident.

It is difficult to believe that the unfortunate victim, Daragh Harding, was unaware of the dangers of towed hang gliding experiments.

We enclose articles from "Wings!" and an extract from the I.H.G.A. Rule Book, on the subject.

If there are any points in this report on which you would like additional information, please let me know.

Yours sincerely,

N.P. KOUMARIANDS

HARDING ACCIDENT - RUSH CO. DUBLIN 18TH OCTOBER 1981

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Cause of Accident.

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- Condition of glider.

CAUSE OF ACCIDENT

- On Sunday the 18th October 1981 Darragh Harding
 was involved in a hang gliding accident at
 Rush beach, Co. Dublin.
- 2. Injuries Sustained Fatal.
- 3. It appears that Mr. Harding, from witness accounts and damage sustained to the glider, got into a lockout situation from which he did not recover.

Harding had taken about six steps forward the

I am a member of An Garda Siochana, stationed at Rush Garda station, Rush, Co. Dublin. At 6.30 p.m. on the evening of Sunday the 18th October 1981, while on patrol, I went to the south beach, Rush, Co. Dublin. While I was there I noticed a man, Darragh Harding, harnassing himself to a black and white hang glider. I also noticed a white Alfasud, motor car, approximately 100 yards down the beach in the direction of Portrane, from Harding. The rear of this motor car was attached to the nose of the glider by means of a blue rope. There was a man sitting in the driver's seat of the motor car. I saw Harding pick up the hang glider. At the same time the motor car moved off in the direction of Portrane, along the beach. When Harding had taken about six steps forward the glider took off and rose to an altitude of about 10 feet. It stayed at this altitude for a distance of about ten yards. Then the glider rose steadily to an altitude of about 100 feet when suddenly the nose of the glider dropped and plummeted towards the ground. When the nose of the glider turned towards the ground I saw Harding's hands leave the control bar of the glider. When he hit the ground I ran towards him. The motor car immediately stopped and the driver got out and ran back towards Harding, reaching him before I did. Harding was lying o his back on the sand when I reached him. His left leg appeared to be broken. He was having difficulty breathing so I opened his helmet strap and undid the zip of his jacket. Kieran Butterly came out from his house on South Shore Road and I asked him to ring for a doctor and an ambulance. Doctor Murray arrived at about 6.45 p.m. I went to the main street to await the arrival of the ambulance. The ambulance arrived at about 7.10 p.m. I helped the ambulance men to carry the stretcher back to the ambulance. Harding was still breathing when he was put into the ambulance. I later learned that he had died. When towing Harding I would say that the motor car

did not exceed 10 M.P.H. The rope which joined the glider and the motor car is 100 yards long. I have read over this statement and I am satisfied that it is correct.

Signed		Garda	22177E	
Salarday of 1	(Don Campion)			

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REPORT BY MR. KIERAN BUTTERLY RUSH CO. DUBLIN

Mr. K. Butterly of South Shore Road, Rush, Co. Dublin said that he had seen the glider on the beach on Friday and Saturday of the same weekend but it was not flying. On Sunday he was sitting at home looking out onto the beach when he noticed the glider was on the beach and it appeared that the pilot was attempting to be towed by a white Alfasud car. The car moved off down the beach and the glider rose up into the air to a height of approximately 100 feet. All of a sudden the glider was plummeting to the ground at which stage Mr. Butterly ran out to see if he could be of any assistance.

John Rossitar - Safety Officer

REPORT BY JOHN ROSSITER IRISH HANG GLIDING ASSOCIATION - SAFETY OFFICER

This is the first time towing has been attempted in Ireland. Towing is a highly specialised method of launching a hang glider and must only be attempted by experienced hang glider pilots having received adequate training through an approved towing school, not available in Ireland at present.

Had Mr. Harding been a member of the I.H.G.A. and sought information on towing methods he would have received a very strong warning of the dangers involved.

Left L/edge best at nose plate,

and point and at traking edge lost side.

John Rossiter - Safety Officer
Irish Hang Gliding Association.

CONDITION OF GLIDER

- Both uprights broken.
- Keel broken just before hang point and behind hang point.
- Keel fin broken at hang point.
- Crosstubes okay (Rope tied to left side of hang point.
- Right L/edge broken 2 feet from nose plate and at deflexor point.
- Left L/edge bent at nose plate.
- Sail badly torn at nose plate, hang point and at traking edge left side.
- 8. King post, bottom bar and hang point okay.

John Rossiter - Safety Offic Irish Hang Gliding Associati " EVENING PRESS" MXTRACT HOSM

rower of the accident. It is under-stood that he lived in a flat Rush, on holidays at the time A 23-year-old nowice hang-slider plummeted to his death esterday when his attempt to be towed by a car went disas-A spokesman for the Irish

trously wrong.

Mr. Darragh Harding, a native of Waterford, had just Bush been launched into the air at 100 feet to his death after his tow-rope got entangled in the Hang-gliding Association said today that to his knowledge nobody in Ireland had ever attempted to hang-glide in this

in Dublin.

He died from multiple sion to the Marter his admission to the Marter Hospital Around 7.00 p.m. Mr. Harding, who was in the electronice business, was staying at a house in Shore Road,

about 100 feet," the eye-wit-

the accelent.

"An Alfa Bomeo car was bowing the hang-gidder by a rope which was attached to the nose of the hang-gidder from

The rear of the car", he said.

"Mr. Harding made a successful launching but when he nose of the glider was pulled down by the rope attached to "He had no means of dis-engaging himself from the car and hadn't a hope of being the car, and the crashed on to

The gards said that this was the first time be had seen

safety rules", he said, "The glider and the car driver must have the highest skills, because there are many special techniques involved. Nobody to my such gliding".

It was also learned that Mr. Harding only took up hang-gliding last April and was still classed as a Novice. Harding

TRAINING

A top Engtish hangglider fell.
200 feet to his death while flye ing our the north east face of
the Sugariouf mountain in Co.
Wachlow on Christmas Eve 1976.

In April 1978 another hang-glider was indured when he plunged into a citif face ages

ness said.

"The nose of the glider was forced downwards and at that stone." A gards on patrol witnessed SUCCESSFUL had carlier watched Mr. Harding and the car driver try the beach.

"The highest the glder managed was about 10 feet. However, the wind freshened during the afternoon and on to ten feet then suddenly to managed the sides of the statement of the sides of the statement of the sides of the statement the glider rose to ten feet then suddemly to managed. An eye-witness said that he

Today a spokesman for the Mr. Alvin Bussel, from said thang-gilding Association Shropshire, had vast experience said that he was appalled to of hang-gilding end was fiving being towed, by a car. British Hang exideng Association of the control of The accident was also seen by local man from his home near the beach. He immediately phoned for an ambulance.

There were no other people in crash landing.

W hang-gliding on the one-mile beach at Rush.

EXTRACT FROM THE I.H.G.A.

- 3. Do not fly near power-lines or trees.
- 4. It is not advisable to fly on rocky sites.
- If flying within the jurisdiction (5 miles) of an airport authority, make sure to advise Air Traffic Control.
- 6. Do not fly over or near busy roads.
- 7. Obey Country Code.

feather:

- Novices should not attempt to fly in gusty conditions or in winds less than 5 m.p.h. or over 15 m.p.h.
- In wind speeds of over 12 m.p.h. it is essential to have a man holding the nose of the glider prior to launching.
- 3. It is not recommended to fly when visibility is poor.

Flying Procedures:

- 1. No towing under any circumstances.
- 2. Do not fly alone—at least one ground crew mandatory.
- 3.XUse of a King Post essential.
- 4. After an exceptionally heavy landing, an airframe check must be carried out.
- 5xFly within the safe working load of the craftref. B.H.G.M.F.* safety standards.
- 6. Prior to each flight, it is essential for the pilot



Irish Hang Gliding Association MEMBERS HANDBOOK

EXTRACT FROM WINGS: WAGHLINE







Towing

TOWING accidents are still Airworthness officer CLIVE SMITH. solated groups who have DON'T DO IT. The information to test fly it - don't. Contact Bob always involve small avail recommendations, nor contact approved authorities. A little contained in the BHGA towing If you have themselves of current BHGA handbook and the standards built a system and are about Clive Smith, THERE has been a resurgence of and activity in the last 12 months by several groups around the world aimed at resurrecting the dream directly or via Taunton office. knowledge is dangerous the result valuable past experience Brough, taken no trouble to happening, writes required are either: Andy not innuendo. Harrison or interest

The BHGA has taken a very cautious

of safe tow launching.

approach in the past, acting in the role of independent assessors for insurance purposes.

In this field, Roy Hill and Keith Cockroft vetted and test flew some systems, Ann Welch and Reggie Spooner advising from BGA experience. Two schools were approved to teach the theory and practice of tow launching, using tow-frame systems and pay-out winching, but due to P2 rating for trainee requirements and lack of enthusiasm among hill-fliers, probably less than fifty pilots were trained, though most to a reasonable standard and finding the experience well worthwhile.

Len Gabriels introduced a simple static winch and taught many pilots with a basically lowtension "tow-frame-less' bridling system.

This wave of activity probably culminated with the Little Snoring event, highly successful for a first attempt, but not without incident — Gary Phillips told in last month's Wings! how he is still recovering from an accident there.

BHGA took note, but with so few groups actually towing and development still obviously continuing, standardising a set of towing was not easy continuing ad-hoc approval. methods

Brough

for current towing practice, such that individual towing groups within the BHGA could be approved and thus automatically covered by the Earlier this year I was tasked with BHGA's third party liability cover for all fiying producing a set of "standards and requirements" members.

Andrew Brougn, then actively developing a complete towing system, agreed to correspond with known towing exponents in the UK and throughout the world to collate as much information as possible. This has been drafted into a complete towing handbook, - Standards and Recommendations for Towing Hang Gilders - and is available through the BHGA at Taunton.

information on classic methods of towing This publication is considered essential for contains and bridling, as well as very recent developments which are promising to bring tow-launching into the domain of P1s. those planning to tow launch.

It is hoped that with this document available, reasonable sized groups (4+ rather than twos

Valley, despite having good hill sites has and threes) and particularly whole clubs will take the initiative and organise system, site and staff responsibility. As reported in Wings!, one club, Thames achieved this under the leadership of Andy Having been training pilots and developing hardware all this Summer, next Spring should easily put-paid to Brian Wood's six mile XC getting easy and consistent airtime over flat ground - AWAY FROM HILLS. Without a record, but more importantly should see pilots two-hour walk-up, a ten-minute still-air glide down can be most relaxing - after an evening tow-launch. Worth considering.







big,

Andrew was meticulous in the construction of the winch hich he continually strives to approve, even though all greed that it was virtually erfect from the start. With live Smith on the brake, andrew was the first pilot to fly the winch and his first launch ook him well over a thousand set. A great start. We're oking towards our 20th unch with no mishaps which uses a long way towards roving that tow launching is

Andrew made two glider introl frames with top and atom releases for the worldle system we currently use. 's a pity that control frames in't be a standard size on all iders because we are using urth generation machines in would really like to tow a XB model without the hassle altering rigging or making different frame. From all counts the floring ossboom will aid control ider tow, making it even is sier than it already is.

unching.

The limited tension which we a is a free-wheeling drum-to hich tension is applied rough a hydraulic hand-erated disc-brake. The dypropylene rope is paid out such a tension as to allow e glider to strip line from the um while at the same time um while at the same time uning height. It all foils with a balance between the eed of the tow vehicle, the nd speed, the applied tension e weight of the pilot, and the igle of the line from the nch.

The take-off looks pretty amatic. The pilot strads the glider hooked up to the v line poised at the reidy, e tow vehicle then ranks

big 'wind-up'

Getting near 2,000' by tow launch

away paying out line to leave the first-time spectator imagining that the wing will surely be yanked in two with the pilot suffering neck whiplash. The fast-disappearing brake man then applies the brake and glider and pilot are fifty feet high and climbing fast before you fully realise what's happened.

After watching it myself I went away and mentally lived through the whole experience a hundred times

hundred times.

My first real launch brought with it a vastly heightened pre-flight awareness, bladder contraction, and dry mouth. The actual launch was so much a duplication of my expectations that it proved easy and exhilarating.

Believe me, it's an incredible experience to watch the tow vehicle turn from life -size to a speck in three minutes and to have a kilometre of rope hanging from the glider.

The first few launches make your arms ache until you learn to relax and ride the bumps. Flying straight with arms at full stretch is a new experience and strangely relaxing. You watch the tow vehicle underneath the bottom bar

with occasional glances at the altimeter. Anything under 1,300 feet we've come to regard as a bit mediocre. To date we've reached 1,800 on 3,300 feet of line, and so now with an added length we'll soon be cracking 2,000 feet — and we all want to be first to do it.

It's sheer magic to drop the line at 1,800 (set and suddenly become seemingly weightless, motionless and quiet, with the car below reduced to minature and the whole airfield spread out and looking small. Much of our towing has been in the evenings after work (and school — sorry Andrew) when the air is glassy smooth and you can fly with vitually no control input. With no other gliders to worry about and no worries about ridge lift, I've drifted high over familiar countryside visually exploring miles of lanes, tracks, woods and villages which would take a month to walk.

system which leaves little room for error. Thus the tow method and equipment MUST be approved and the operators MUST have received adequate tutition. If you try fixed-line towing or cut corners then you'll simply become a statistic. Andrew Brough is in the process of writing a towing manual which will incorporate advice from world-wide sources, coupled with the experience gained during development and proving of his winch and control frames.

And so finally and most

you'll not be disappointed. It can never be stressed too heavily though, that towing is a

development and proving of his winch and control frames.

And so finally and most importantly, if any of you should be remotely interested in tow launching yourselves seek the advice which is available and avoid making costly and possibly painful mistakes.



Andrew Hill
- "dubious character"?

Flying in such conditions is so effortless that normal flying improves casily as you can do whatever you wish exactly when you want to. You can fly pre-determined manoeuvres and 360s can be wound into the ground as you don't worry about drifting over the back. Your spot landings become pretty smart too. Then it's hitch up and away you go again.

We've not yet caught a good thermal day but we've flown at times when light winds have kept hill fliers grounded.

The local population seems not to have noticed us and so there has been little problem with speciators. Tom Baxter the farmer's son, is the only regular non-flier to give us a hand, and we suspect it won't be too long before he takes himself off to a school for his PI or ultralight certificate.

If you're a competent P2 and have the chance to tow launch

