



## TIME SCHEDULE SCIENTIFIC AND SOCIAL PROGRAM

(Version 20.04.2009)

Sunday April 26, 2009		
14.00	Departure shuttle bus from Innsbruck Airport → Garmisch-Partenkirchen, Hotel Riessersee	
14.00	Departure shuttle bus from Munich Airport → Garmisch-Partenkirchen, Hotel Riessersee	
14.00-18.30	Congress Registration (Hotel Riessersee)	
19.00-22.00	<b>OPENING CEREMONY</b> (Hotel Riessersee)	19.00-19.45 Welcome drinks & finger food 20.00 Opening greetings 20.45 Video greeting of the President of the Fédération Internationale des Patrouilles de Ski (FIPS) from their Åre Meeting, Sweden

**Monday April 27, 2009****MORNING SESSION**

08.30-09.15	KEYNOTE	Speaker: Professor Robert J. JOHNSON, MD Title: "Myths" Concerning Alpine Skiing Injuries
09.15-10.30	Oral Presentation I	<b>EPIDEMIOLOGY</b>
	09.15 - 09.30	Jasper SHEALY Aging Trends in Alpine Skiing
	09.30 - 09.45	Nicolas FENET Epidemiological Descriptive Study of Injuries of Elderly People Population in French Ski Resorts
	09.45 - 10.00	Arne EKELAND Skiing and Boarding Injuries on Norwegian Slopes
	10.00 - 10.15	Jan ROKYTA Skiing and Snowboarding Injuries in Czech in Seasons 2003-2008
	10.15 - 10.30	Suzanne WERNER Risk Factors for ACL Injuries in Alpine Skiing
10.30-11.00	Coffee Break	
11.00-12.30	Oral Presentation II	<b>EPIDEMIOLOGY</b>
	11.00 - 11.15	Gerhard RUEDL Are ACL Injuries Related to Perceived Fatigue in Female Skiers?
	11.15 - 11.30	Martin BURTSCHER Gender Specific Effects of Smoking and Alcohol Consumption on the Risk of Falling in Alpine Skiers
	11.30 - 11.45	Harald LYSTAD Shoulder Injuries in a Norwegian Ski Resort
	11.45 - 12.00	Tsuneo YAMAGISHI Upper Extremity Injuries in Snowboarding
	12.00 - 12.15	Heinz KUSCHE Do Children and Adolescents Have a Higher Risk to Suffer a Wrist Injury in Snowboarding?
	12.15 - 12.30	Chad PATTON Wrist Fractures in Alpine Winter Sports: An Analysis of 34 Seasons
12.30-14.00	Lunch	

**Monday April 27, 2009**

**AFTERNOON SESSION & EVENING**


14.00-15.15	Oral Presentation III	<b>EPIDEMIOLOGY</b>	
	14.00 - 14.15	Tracy DICKSON	Risk factors in Snowboarders' Wrist Fractures
	14.15 - 14.30	Tsuneo YAMAGISHI	Risk Factors of the Anterior Cruciate Ligament in Alpine Skiing
	14.30 - 14.45	Lana RUZIC	Injury Risk Ski Behavior in Helmet Wearers and Non-Wearers
	14.45 - 15.00	Giannina BIANCHI	Helmet and Risk Taking
	15.00 - 15.15	Thomas HENKE	Rate of Wearing Helmets and Head Injuries in Alpine Skiing – Current Results from the German Ski Injury Statistics
15.15-15.45	Coffee Break		
15.45-17.15	<b>MODERATED POSTER SESSION</b>		
	Heather LaHART	Case Study: Kenny Salvini v. Ski Lifts, Inc.	
	Gerhard RUEDL	A Structured Warm-Up Program to Prevent Injury in Recreational Skiers	
	Kim VISSARION	First Aid Organization at the Prehospital Stage by Ski Injury at the Ski Resort Chimbulak	
	Fabian WOLFSPERGER	Evaluation of a Safety Snowboard Binding Concept in a Real Snowboarding Environment	
	Keizo YAMAMOTO	Asymmetry of Take-Off Motion in Ski Jumping	
17.30-18.00	Daily Summary (including POSTER SESSION) & HOT TOPICS FOR RESEARCH		
18.30-19.30	Wellness / Outdoor Activities		
19.00-21.00	Dinner		
21.00	ISSS Board Meeting		

**Tuesday April 28, 2009****MORNING SESSION**

08.30-09.15	KEYNOTE	Speaker: Richard M. Greenwald, Ph.D Title: Biomechanics of Winter Sport Injuries
09.15-10.30	Oral Presentation IV	<b>BIOMECHANICS OF INJURIES</b>
	09.15 - 09.30	Uwe KERSTING Comparison of a six degree-of-freedom force sensor and pressure insole measurements in skiing
	09.30 - 09.45	Christopher BROWN Rotations and Torques in Ski Turns
	09.45 - 10.00	Ulrich FILIPPI-OBBEREGGER Reaction Forces During a Carved Turn in Alpine Skiing
	10.00 - 10.15	Martin MÖSSNER Simulation of Ski Turns with a Sledge on Skis versus a Skier Model
	10.15 - 10.30	Pierre Jean ARNOU Injury criteria law and knee joint trauma under Alpine Skiing a coupled experimental and numerical approach
10.30-11.00	Coffee Break	
11.00-12.30	Oral Presentation V	<b>BIOMECHANICS OF INJURIES</b>
	11.00 - 11.15	Stefan FREUDIGER ACL Lesions Due to Settings Above Injury Levels or due to Abuse of Knee Joints
	11.15 - 11.30	Richard GREENWALD Biomechanics of Head Impacts in Pediatric Snowboarders
	11.30 - 11.45	Kai-Uwe SCHMITT Investigating the Wrist Loading in Snowboard Backward Falls
	11.45 - 12.00	Erin HARLEY Reaction Time of Skiers and Snowboarders
	12.00 - 12.15	Kurt SCHINDELWIG Determination of the Field of View with Respect to Speed in Alpine Skiing
	12.15 - 12.30	
12.30-14.00	Lunch	

**Tuesday April 28, 2009**


**AFTERNOON SESSION (Part 1)**

10.00-14.00	Registration FIS Medical Committee		
14.00-14.30	<p>OPENING FIS Medical Committee Research Seminar</p>		
			<ul style="list-style-type: none"> <li>• FIS Race Director Joe FITZGERALD</li> <li>• Dr. Hubert HÖRTERER</li> <li>• Prof. Roald BAHR</li> </ul>
14.30-16.30	Oral Presentation VI	Current State of Safety Related Research in Elite Sports	
		Chairs: Hubert HOERTERER Hans SPRING	
	14.40	Tonje Wåle FLØRENES, NOR	Injuries to World Cup Ski and Snowboard Athletes - Data from Two World Cup Seasons
	14.55	Chris IRVING, CAN	The Alpine Canada ACL Injury Surveillance Program
	15.10	Werner NACHBAUER, AUT	Current FIS Safety Measures at Alpine Competitions
	15.25	Mathieu FAUVE, SUI	Interaction Athlete - Equipment - Snow
	15.40	Erich MÜLLER, AUT	Three-Dimensional Kinematic and Kinetic Analysis of World Cup Specific Giant Slalom Turns
	15.55	Tone BERE, NOR	Video Analyses of Injuries in World Cup Skiing
	16.10	Veit SENNER, GER	Pyro Power Safe – Emergency Ski Release for Speed Disciplines?
16.30-16.45	Short Coffee Break		

**Tuesday April 28, 2009****AFTERNOON SESSION (Part 2) & EVENING**

16.30-18.00	Oral Presentation VII	Current State of Safety Related Research in Elite Sports	Chair: Tron KROSSHAUG, Ph.D
	16.50	Peter SPITZENPFEIL, GER	Exposure in Alpine Ski Racing – Reasons for Knee Injuries and other Severe Trauma
	17.05	Dieter HEINRICH, AUT	Calculation of ACL-Force During Landing Movement in Downhill Skiing
	17.20	Anton LÜTHI, SUI	Net Joint Moments during Landing in Freestyle Aerial Skiing
	17.35	Tonje Wåle FLØRENES, NOR	Are Knees at Risk in Ski Jumping?
	17.50	Rick GREENWALD, USA	Biomechanics of Mild Traumatic Brain Injury in Alpine Sports
	18.05	Veit SENNER, GER	Computer Simulation of Helmet Protection Capacity: Effects of Increased Damping.
	18.15	Laurence YOUNG, USA	Fluid in Foam Helmet Liners Can Reduce Head Impacts
18.30-19.00	Daily Summary & HOT TOPICS FOR RESEARCH		
19.00	Invitation by Fédération Internationale de Ski (FIS): Sparkling Apéritive served to all ISSS 2009 participants		
19.30-21.00	Dinner		
21.00	Social Activity	Roulette – Evening; CASINO Garmisch-Partenkirchen	(formal dress required)

## Wednesday April 29, 2009

8.30	Bus transfer to Zugspitze for Skiers, Boarders, Telemarkers, Snow Shoe Hikers, ...	
09.00		
9.30	Bus departure for "Non-Skier-Program"	FIS Medical Committee Internal Meeting
10.00-11.30	Enjoy <i>Zugspitze slopes, climb the summit, relax in the sun...</i>	
11.30-12.00	or Enjoy <i>Bavarian Art, Culture &amp; Castles</i>	FIS Medical Committee Internal Meeting
12.00-13.30	Lunch	
13.30-16.00	Enjoy <i>Zugspitze slopes, climb the summit, relax in the sun...</i> or Enjoy <i>Bavarian Art, Culture &amp; Castles</i>	
	ENJOY WELLNESS & SPA Area in the Hotel Riessersee	

**Thursday April 30, 2009****MORNING SESSION**

08.30-09.00	KEYNOTE	Speaker: Prof. Dr.-Ing. Veit SENNER Title: Winter Sport Safety Equipment: Current State and Future Developments
09.00-10.30	Oral Presentation VIII	<b>SAFETY RELATED EQUIPMENT DESIGN</b>
	09.00 – 09.15	Jean-François MERINO   Three Years On-Snow Binding Measurements in Alpine Skiing
	09.15 - 09.30	Richard GREENWALD   On-Snow Evaluation of a Novel Ski Binding Release Mechanism
	09.30 - 09.45	Carl ETTLINGER   Methods for Determining the Retention Requirements of Alpine Skiers
	09.45 - 10.00	Carl ETTLINGER   Retention Requirements of Alpine Skiers
	10.00 - 10.15	Rick HOWELL   Lateral Heel Release Settings for Alpine Ski Bindings
	10.15 - 10.30	
10.30-11.00	Coffee Break	
11.00-12.30	Oral Presentation IX	<b>SAFETY RELATED EQUIPMENT DESIGN</b>
	11.00 - 11.15	Veit SENNER   Physical Knee Model for Ski Binding Development
	11.15 - 11.30	Jürgen EICHHORN   Development of a Women-Adapted Alpine Ski
	11.30 - 11.45	Nicola PETRONE   Evaluation of Muscular EMG Activity Variations Wearing Ski-Mojo™ on a Skiing Treadmill
	11.45 – 12.00	Max MÜLLER   Digital Skiing Coach – Possible Contribution to Skiing Safety
	12.00 - 12.15	Andreas KRÜGER   Design and Evaluation of a Safety Snowboard Binding
	12.15 - 12.30	
12.30-14.00	Lunch	




**Thursday April 30, 2009****AFTERNOON SESSION & EVENING**


14.00-15.15	Oral Presentation X	<b>SAFETY RELATED EQUIPMENT DESIGN</b>	
	14.00 - 14.15	Wolfgang SCHOTT	Emergency Release for Winter Sport Equipment
	14.15 - 14.30	Nico KUPIERS	Biomechanical Assessment of a Modified Ski Boot for Mogul Skiing
	14.30 - 14.45	Nicola PETRONE	Methods for Full Scale Impact Testing of Ski Safety Barriers
	14.45 - 15.00	Bernd LINGELBACH	Polarizing Filters in Ski Sports
	15.00 - 15.15		Discussion
15.15-15.45	Coffee Break		
15.45-16.45	Oral Presentation XI	<b>CAMPAIGNS &amp; INJURY PREVENTION PROGRAMS</b>	
	15.45 - 16.00	Othmar BRÜGGER	bfu Prevention Campaign in Snow Sport: Planning, Realization and Evaluation
	16.00 - 16.15	Frank HOFER	Snow Sport Priority Program "Evidence into Practice": Coordination of Swiss Snow Sport Accident Prevention
	16.15 - 16.30	Brenda COSTA-SCORSE	Does the Adjustment of Alpine Ski-Boot-Bindings Systems in New Zealand Meet International Best Practice Guidelines to Ensure Release and Prevent Injury?
	16.30 - 16.45	Chris IRVING	Alpine Canada Medical and Sport Science Group
17.00-18.00	Daily Summary & HOT TOPICS FOR RESEARCH		
18.30-19.30	Wellness / Outdoor Activities		ISSS National Secretary Meeting
19.00-21.00	Dinner		
21.00	Social Activities	Torch Tour, Night Sledding, Curling	

**Friday May 01, 2009**

**DAY PROGRAM OVERVIEW (Parallel Sessions)**

07.30-08.30	DAY REGISTRATION <i>SKI AREA &amp; TERRAIN PARK SAFETY</i>		REGISTRATION SYMPOSIUM <i>CARTILAGE DAMAGE &amp; TISSUE REPAIR</i>  GÜTESIEGEL der Deutschsprachigen Arbeitsgemeinschaft für Arthroskopie (AGA)
08.30-09.00	KEYNOTE	Speaker: Othmar BRÜGGER, MSc	Opening – Welcome (Prof. A. IMHOFF)
09.00-10.30	Oral Presentation XII	<b>CAMPAIGNS &amp; INJURY PREVENTION PROGRAMS</b>	Shoulder Injuries in Winter Sports
10.30-11.00	Coffee Break		
11.00-12.30	Oral Presentation XIII	<b>SKI AREA DESIGN &amp; TERRAIN PARK SAFETY</b>	Knee Injuries in Winter Sports
12.30-14.00	Lunch		
14.00-15.00	Oral Presentation XIV	<b>SKI AREA DESIGN &amp; TERRAIN PARK SAFETY</b>	Articular Cartilage
15.00-15.30	Coffee Break		
15.30-16.45	<b>ROUND TABLE DISCUSSION <i>SLOPE SAFETY</i></b> Moderation / Chair: Prof. Peter SCHAFF		Coffee Break
16.45-17.30			Conservative Treatment – Prevention to Rehabilitation
17.30-18.15			Discussion - Summary - Closing Remarks
17.30-18.15	ISSS General Assembly		
18.15-19.30	Wellness / Outdoor Activities / Dressing up		
19.30-24.00	CLOSING BANQUET (Hotel Riessersee)		

**Friday May 01, 2009      CARTILAGE DAMAGE & TISSUE REPAIR – MORNING SESSION**

07.30-08.30	REGISTRATION			<b>GÜTESIEGEL</b> der Deutschsprachigen Arbeitsgemeinschaft für Arthroskopie (AGA)
08.30-09.00	Opening – Welcome (Professor Andreas IMHOFF)			
09.00-10.30	<b>SHOULDER INJURIES IN WINTER SPORTS</b>			
	09.00 – 09.15	Harald LYSTADT	Shoulder Dislocation in a Norwegian Ski Resort	
	09.15 - 09.30	Jochen PAUL	Shoulder Luxation and -Instability	
	09.30 - 09.45	Knut BEITZEL	Acromio-Clavicular Joint Dislocation	
	09.45 - 10.00	Benjamin KÖNIG	Proximal Fracture of the Humerus	
	10.00 - 10.15	Nikolaos TZANAKAKIS	Qualitative Estimation of Bone Defects in Anterior Shoulder Instability and their Relation to Recurrence Rate	
	10.15 - 10.30		Discussion	
10.30-11.00	Coffee Break			
11.00-12.30	<b>KNEE INJURIES IN WINTER SPORTS</b>			
	11.00 - 11.15	Marc-Hervé BINET	What Confirmation for Clinical Diagnosis of ACL Tears?	
	11.15 - 11.30	Andreas IMHOFF	Complex Knee Luxation	
	11.30 - 11.45	Stefan BUCHMANN	Cruciate Ligament Injuries	
	11.45 – 12.00	Michael ULMER	Meniscus Lesions – What to Do?	
	12.00 - 12.15	Knut BEITZEL	Traumatic Injuries of the Patella	
12.15 - 12.30	Andreas IMHOFF	<b>Demonstration Video ACL Reconstruction</b>		
12.30-14.00	Lunch			

**Friday May 01, 2009**

**CARTILAGE DAMAGE & TISSUE REPAIR - AFTERNOON SESSION**



**GÜTESIEGEL**  
der Deutschsprachigen  
Arbeitsgemeinschaft für Arthroskopie (AGA)

	ARTICULAR CARTILAGE		
14.00-15.15	14.00 - 14.15	Sven HINGELBAUM	Cartilage Damage and Meniscus Transplantation
	14.15 - 14.30	Peter BRUCKER	Osteochondral Autologous Transplantation System (OATS)
	14.30 - 14.45	Peter KREUZ	Autologous Chondrocyte Transplantation and Microfracturing
	14.45 - 15.00	Peter BRUCKER	Partial Prosthesis – Options and Limitations
	15.00 - 15.15	Jochen PAUL	Osteotomies Around the Knee– a Treatment Option?
15.15-15.45	Coffee Break		
	CONSERVATIVE TREATMENT – PREVENTION TO REHABILITATION		
15.45-16.45	15.45 - 16.00	Thomas HORSTMANN	Biomechanical Aspects of Knee Rehabilitation
	16.00 - 16.15	Rebecca HASLER	Early Identification of Injuries in Skiers and Snowboarders Who Need Tertiary Trauma Care: What are the Key Injury Patterns and their Implications?
	16.15 - 16.30	Klaus REMUTA	Rehabilitation of Professional Skiers – A Physiotherapist’s View
	16.30 – 16.45	Hubert HÖRTERER	Rehabilitation and-Winter Sports – Limits and Possibilities
16.45-17.30	DISCUSSION – SUMMARY – CLOSING REMARKS		

**Friday May 01, 2009      CAMPAIGNS / SKI AREA & TERRAIN PARK – MORNING SESSION**

07.30-08.30	DAY REGISTRATION <i>SKI AREA &amp; TERRAIN PARK SAFETY</i>		
08.30-09.00	Speaker: Othmar BRÜGGER, MSC bfU Switzerland Title: bfu - Swiss Snow-Sports Injury Prevention: National Programs, Campaigning & Research Activities		
09.00-10.30	<b>CAMPAIGNS &amp; INJURY PREVENTION PROGRAMS (CONT.)</b>		
	09.00 – 09.15	Rebecca HASLER	Risk Factors in Alpine Skiing: A Prospective Controlled Multicenter Survey in 782 Patients
	09.15 - 09.30	Simon DUBLER	Risk Factors in Snowboarding: A Prospective Controlled Multicenter Survey in 306 Patients
	09.30 - 09.45	Monika RIEDER	Is Telemark Skiing a Good Alternative to Alpine Skiing?
	09.45 - 10.00	Tracy DICKSON	Do Hydration Packs Modify Hydration in All Day Skiing?
	10.00 - 10.15		Discussion
	10.15 - 10.30		
10.30-11.00	Coffee Break		
11.00-12.30	<b>SKI AREA DESIGN &amp; TERRAIN PARK SAFETY</b>		
	11.00 - 11.15	SESSION OPENING: Prof. Dr. Peter SCHAFF	
	11.15 - 11.30	James McNEIL	Rider Variability in the Dynamical Analysis of Winter Terrain Park Jumps
	11.30 - 11.45	Paul McALPINE	Kinetic Analysis of Snowboard Jump Landings
	11.45 – 12.00	Irving SCHER	Unconstrained Speeds of Skiers And Snowboarders: Factors Influencing the In-Run of A Table-Top Jump
	12.00 - 12.15	Jasper SHEALY	Relationship Between Distances Obtained While Jumping Versus Takeoff Speed And Equipment Used
	12.15 - 12.30	Heather LaHART	Developing Winter Terrain Park Jump Guidelines : An Overview & Application of Research
12.30-14.00	Lunch		

Friday May 01, 2009

SKI AREA & TERRAIN PARK - AFTERNOON SESSION

SKI AREA DESIGN & TERRAIN PARK SAFETY

14.00-15.00	14.00 - 14.15	Stefan BENEDIKT	Easy Fun Park – Didactical Concept for Safe Learning in Terrain Parks
	14.15 - 14.30	Roman BAKA	Level of Consciousness and Knowledge in Recreational Skiers. Part III Skiing Speed and Safety Issues When Practicing Alpine Skiing
	14.30 - 14.45	Veit SENNER	Enjoy Low Speed – Research Initiative to Better Understand Skiers’ Pros and Cons Towards Speed Control on the Slope
	14.45 - 15.00	Kai-Uwe SCHMITT	Analyzing the Riding Behavior of Skiers and Snowboarders

15.00-15.30 Coffee Break

15.30-17.00	ROUND TABLE DISCUSSION <i>SLOPE SAFETY</i> Moderation: Professor Dr. Peter SCHAFF	 Stiftung Sicherheit im Skisport
		 ARAG Insurance <a href="http://www.ARAG-Sport.eu">www.ARAG-Sport.eu</a>

17.00-17.30

17.30-18.15 ISSS General Assembly

18.15-19.30 Wellness / Outdoor Activities / Dressing up

19.30-24.00 CLOSING BANQUET (Hotel Riessersee)