Status of Laser Applications in the Body and White at Volkswagen White W	時間		Paper Title	氏名	会社名	アブストラクト
(10.05			開会の辞			
The presentation will give an overview of all applications currently installed at Volkswagen will applications currently installed at Volkswagen will get caplained Glosery for White at Volkswagen will get caplained Gloser Framing-Station. Front-Module-Plate. Side-Panel-line). The strategy for implementation of new Technology's as a key for success will get discussed. The new installations of laser technology will get handed so example and white at Volkswagen. State Planel Planel Plate Side-Panel-line). The strategy for implementation of new Technology as a key for success will get discussed. The new installations of laser technology at Volkswagen. The panel focuse on the appropriate use of laser technology at Volkswagen. The speach focuse on the appropriate use of laser technology in the 5- and 6-Series with the BMW 5- and 6-Series with the BMW 5- and 6-Series with the BMW 6- and 6-Series with the	10:05	〈セッ		ザ加工動向		
Isser technology in the 5- and 6-series Protection force is on leightweight design in terms of material, form and concept (Project "CRAV") weight-reduced aluminium front end) which is made possible and supported by the use of laser technology for weight action and which is made possible and supported by the use of laser technology for weight action and weight action and the first-time use of laser technology for weight and content production of the plant weight components. Welding and cutting unified for serie application. In addition the speech deals with on these models and been qualified for serie application. In addition the speech deals with one savings in the production of sub-assemblies (Impact elements) by a laser-autizable design of the components and the first-time use of laser-brazing technology on trutik lids. Institute	(10:05– 11:05)		Status of Laser Applications in the Body		Volkswagen	The presentation will give an overview of all applications currently installed at Volkswagen. The historic dvelopment of lasers at Volkswagen will get explained followed by a "walk through th Bodyshop" Golf V. Different cells will get explained (Laser-Framing-Station. Front-Module-Plate. Side-Panel=line). The strategy for implementation of "new Technology" as a key for success will get discussed. The new installations of laser technology will get named as example some laser applications out-side the body shop to present a brought picture os lasers in manuufacturing, giving an idea of the future
13:00 全長	(11:05– 12:00)		BIW-Production of the	O ,	вмw	laser technology in the 5- and 6-series. Particular focus is on leightweight design in terms of material, form and concept (Project "GRAV" = weight-reduced aluminium front end) which is made possible and supported by the use of laser technology for welding and cutting of lightweight components. Welding of aluminium on hydroformed components has been realized for the first time on these models and been qualified for series application. In addition the speech deals with cost savings in the production of sub-assemblies (impact elements) by a laser-suitable design of the components and the first-time use of laser-
(13:00-13:45)	(12:00-		昼食	1	ı	
(13.00-13.45) Applications of Diode Lasers for Automotive Industry Applications of Diode Lasers for Automotive Industry (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (13.45) (14.30) (14.30) (14.30) (14.30) (14.30) (14.30) (14.30) (14.50) (14.50) (15.3	13.00)	くセ	 ッション2>			司会 森 清和(日産自動車)
(13:45- 14:30) トヨタ自動車におけるレーザ 加工適用	(13:00– 13:45)		Lasers for Automotive	Peter Hoffmar	Lasertechnik	their share in European industrial laser-assisted production. One reason is the outstanding advantage due to the good absorption behaviour at steel material. Another reason is the high electrical efficiency of the laser generator. These properties and a rectangular beam profile directly produced by the laser source distinguish the diode laser for hardening applications. Further applications have been identified in brazing of body-in-white structures, where a first system is already running in production. Finally a new fibrecoupled system solution with an especially
14:45 14:45 14:45 14:45 15:30 15:30 16:15 16:55 16	14:30)			三瓶 和久	トヨタ自動車(株)	導体ダイレクトレーザは小型・高効率を生かして樹脂部品の溶着に、半導体励起YAGレーザはフレキシブル性を生かして車体溶接への適用と展開が進められつつある。最近の自動車部品へのレーザ加工の適用を概観した上で、ボデー連続溶接による効果とその適用例につ
(14:45- 15:30)			休憩			
(14:45-15:30) 新型フーガへのレーザ溶接適	,	〈セッ	ション3>			
(15:30- 16:15)	(14:45– 15:30)		新型フーガへのレーザ溶接適 用	樽井 大志	日産自動車(株)	自動車では新型フーガにおいて車体性能の向上を目的としてSILL部及びP/SHELF部にレーザ連続溶接を適用した。溶接部の品質保証のために取り組んだ内容について紹介する。 車体軽量化技術として適用が進められているテーラー
16:55)総合前舗(日期単小ケーへのレーり冷核の行本性)いて、その利点や問題点、将来性を含めて討論する。(16:55-問金の社レーザ加工学会	16:15)			泰山 正則	住友金属工業(株)	よる溶接性及びその周辺技術の検討結果を報告する。 また、高張力鋼板のレーザ溶接部成形性、各種TWB溶 接工法との比較について述べるとともに、TWBの適用 事例についても紹介する。
(16:55- _{関合の} レーザ加工学会	(16:15– 16:55)		総合討論「自動車ボデーへの」	ノーザ溶接の将:		
	(16:55– 17:00)		閉会の辞			