Analyzer Technology Conference Program April 17 - 21, 2023 Galveston Island Convention Center

"Analytical Solutions by the Sea"

Date/Time	Session /Topic	Title / Developer	Location
7:30 - 5:00	Registration	Symposium and Short Course Registration	Convention Center Lobby
MONDA	Y APRIL 17, 202	3	
	Track 1	Fundamentals of Process Analysis	
	Track I	Introductions for Training	
3:00 - 8:15	Welcome	Safety Moment	Galleon I and II
		Agenda Review & Class Protocol	
		J.C. Arenes, Bobby Singh - Moderators	
	Track 1	Fundamentals of Process Analysis	
:15 - 9:15	Session 1	Fundamentals of Spectroscopy	Galleon I and II
		Bob Bear - Instructor	
	I I	Francisco of Brasses Analysis	
:15 - 10:15	Track 1 Session 2	Fundamentals of Process Analysis Fundamentals of Oxygen Analysis	Galleon I and II
	Session 2	Stuart Simmonds - Instructor	- Calleon Fand II
		State Smillionas - Instruction	
0:15 - 10:30	Break		Meeting Room Area
	Track 1	Fundamentals of Process Analysis	
0:30 - 11:30	Session 3	Fundamentals of Moisture & Dew Point Measurement	Galleon I and II
		John Kerney - Instructor	
	Track 1	Fundamentals of Process Analysis	
1:30 - 12:30	Session 4	Fundamentals of Process Arranysis Fundamentals of Water Quality Analysis	Galleon I and II
	Gession 4	Howard Jordan - Instructor	
		Howard Vordan Interdeces	•
2:30 - 1:30	Lunch		Meeting Room Area
	<u> </u>		
3:30 - 15:00	Track 1	Fundamentals of Process Analysis	
3:30 - 15:00	Session 5	Fundamentals of Gas Chromatography	Galleon I and II
		Michael Roecker - Instructor	
5:00 - 15:15	Break		Meeting Room Area
	Track 1	Fundamentals of Process Analysis	
5:15 - 16:15	Session 6	Fundamentals of Mass Spectrometry	Galleon I and II
		Tony Kou - Instructor	
	Translated	Eundamentals of Brasses Analysis	
	Track 1 Conclusion	Fundamentals of Process Analysis Wrap-up and closing remarks - J.C. Arenes, Bobby Singh	
6:15-16:30	GOGIUGIOII		Galleon I and II
		J.C. Arenes, Bobby Singh - Moderators	
	Track 2	Advanced Process Analysis	
8:00 - 16:00	Session 1	Increasing Sample System Reliability by Better Design	Galleon III
	0000011	Phil Harris - Instructor	
			<u>.</u>
:00 - 5:00pm	ATC	Analyzer Techncial Conference Business Meeting	Galleon I
:00 - 5:00pm	ATC	Analyzer Techncial Conference Business Meeting	Galleon I
:00 - 5:00pm	ATC		Galleon I Exhibit Hall A/B

:00 - 8:00	Attendee	T T	Attendee Breakfast	Ballroom Reception Area
30 - 5:00	Registration		Symposium Registration	Convention Center Lobby
:30 - 5:00	Visitors	VIP Visitors' Day	, , ,	The Technology Forum - Exhibit Hall A
00 - 5:00	Spouses Program		Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 7:30 AM - 10 PM)	Check in at Registration
ate/Time	Session		Paper Title - Author - Presenter	Location
	OPENING		Welcome and Review of ISA / ATC Positions - Wesley Carter and Stuart Simmonds [Conference Co-Chairs]	Grand Ballroom
00 - 8:45 45 - 9:45			Session 1 - Session Moderator - JC Arenes	
		Author(s) -	Peter Geiser, Ove Bjoroy, Nate Gomez, Viacheslav Avetisov and Stuart Rye	
	1-1-1	Presenter -	Peter Geiser	
		Title -	Hydrogen TDLAS for applications from feedstock to energy	Grand Roy
		Author(s) -	Tim Kuiken, Don Gamiles, Cliff Gordon, Eric Stevenson, and Pawel Kluczynski	G _{rand} Ballroo _m
	1-1-2	Presenter -	Tim Kuiken	
		Title -	Innovative Open-path Tunable Diode Laser for Monitoring Hydrogen Sulfide Gas at the Fence Line	
45 - 10:30	Break	1	Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
15 - 10:30	Бгеак		Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
):30 - 12:00			Session 2 Moderator - Rocky Marlatt	
/		Author(s) -	Jean-Philippe Amiet, Mathilde Mascles and Damien Bazin	
/	1-2-1	Presenter -	Mathilde Mascles	
/		Title -	A turnkey and autonomous system for water and wastewater analysis for industrial processes	
/		Author(s) -	Tony Sandfoss	G-
/		Presenter -	Tony Sandfoss	G _{rand} Ballroom
/	1-2-2		Increased Compliance and Reliability Thru Use of Automated pH Measurements in Outfall	an oom
		Title -	Applications	
		Author(s) -	William Johnson and CT Starkweather	
/	1-2-3	Presenter -	CT Starkweather	
/		Title -	Total oxygen demand (TOD) rapid monitoring of Industrial discharge	
2:00 - 1:15	Lunch	ı	Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
2:00 - 1:15	Lunch			The reciniology Forum - Exhibit Hall A/B
15 - 2:45			Announcements - Information Session 3 - Moderator - Rod Merz	Grand Ballroom
:15 - 2:45		Authorite)	Koji Ishikawa, Frank DeThomas, Brian Ross, Kevin Welch and Paul Cammarata	
/		Author(s) -		
/	1-3-1	Presenter -	Koji Ishikawa Real-time measurement of Impurities in Ethylene Production using a Process Laser Gas	
/		Title -	Analyzer with Infra Red Laser Absorption Modulation	
/		Author(s) -	Jonathon Speed and John Martin	
/		Presenter -	Adam Wilson	Grand Roy
/	1-3-2		Mid infrared measurement of organic acid build up in glycol dehydration of water by mid	G _{rand} Ballroom
/		Title -	infrared	
/		Author(s) -	Nate Watson, David Pinkerton, Todd Ratajczak, Jie Zhu, Joshua Chritian and Paul Little	
/	1-3-3	Presenter -	Nate watson	
/	1-3-3	Title -	Real-time Batch Interface Detection and Transmix Reduction UsingNe arInfrared Spectroscopy	
		Title -	and Machine Learning Algorithms Revisited.	
:45 - 3:30	Break	1	Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
20 4:20			Session 4 Session Moderator - Tim Kuiken	
:30 - 4:30		Author(s) -	Michael Hoffman and Kris McGarvey	
	1-4-1	Presenter -	Michael Hoffman	
		Title -	Reliability in analyzer management - the value of data	Gro.
		Author(s) -	Hans-Peter Visser	G _{rand} Ballroom
		Presenter -	Hans-Peter Visser	···om
	1-4-2		Automatic validation of process analyzer systems can be full of surprises for end-users &	ı
/		Title -	students	
	· I			
9:00 AM - 7:00 PM		 	Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B

WEDNES	WEDNESDAY APRIL 19, 2023						
6:00 - 8:00	Attendee		Attendee Breakfast		Ballroom Reception Area		
7:30 - 5:00	Registration		Symposium Registration		Convention Center Lobby		

:00 - 5:00	Spouses Program		Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 7:30 AM - 10 PM)	Check in at Registration
Date/Time	Session		Paper Title - Author - Presenter	Location
:00 - 8:30			Welcome Introduction - Conference Co-Chair	Grand Ballroom
30 - 9:30			Session 5 Session Moderator - Stuaret Simmonds	
	 	Author(s) -	Al Kania and Mike Roecker	1
/	2.5.1	Presenter -	Mike Roecker	
		Title -	Challenges and Benefits of Standardizing Process GC Application Solutions	Gran
		Author(s) -	James Tomlinson, Debra Hall and Eric Colinet	Grand Ballroom
		Presenter -	Jsmes Tomlinson	- Oom
	2.5.2		Micro Gas Chromatography for Monitoring Capable of measuring H2 through C32 in a Single	
/		Title -	Process Instrument	
30 - 10:15	Break		Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
10.10			TOTAGE EXTENT TUDIOS	The recimenegy resum Exhibit ham 742
15 - 11:45	T I		Session 6 Session Moderator - Al Kania	
	/ 	Author(s) -	John Calame	1
/	2.6.1	Presenter -	John Calame	1
/	2.0.1	Title -	The Importnace of accurately measuring industrial nitrogen oxide emissions	
/		Author(s) -	Tim Kuiken, Cliff Gordon, Lee Robison, Jeremy Stein, Ryan Mead, and John Tryon	1
/		Presenter -	Jeremy Stein	Grand Ballroom
/	2.6.2	riesenier-	Measuring Low Level Sulfur Dioxide in the Presence of Ammonia Utilizing a Custom Probe	"'' Ballroom
/		Title -	Design in a Compliance Application	
/		Author(a)	David Inward	1
/	2.6.3	Author(s) -	David Inward	1
'	2.0.3	Presenter -		
		Title -	Enhanced Emission Monitoring Requirements From Sulfur Recovery Unit	
:45 - 1:15	Lunch		Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
.45 - 1.15	Lunch			1
.45 - 1.15	Lunch			
	Lunen		Announcements - Information	Grand Ballroom
	Lunen	Avilanta	Announcements - Information Session 7 Session Moderator - Bobby Singh	
	Lunen	Author(s) -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus	¥,
	2.7.1	Author(s) - Presenter -	Announcements - Information Session 7 Session Moderator - Bobby Singh	¥,
			Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thiery	Grand Ballroom
		Presenter - Title -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thiery A solution for trace level moisture measurement in challenging gaseous and liquid chemicals	Grand Ballroom
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15 - 2:45	2.7.1 2.7.2 2.7.3 Break	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wolter Last Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt	Grand Ballroom Grand Ballroom
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15 - 2:45	2.7.1 2.7.2 2.7.3 Break	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Author(s) - Author(s) - Author(s) -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wolter Last Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall and Sage Mosteller Amanda Tyndall Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt David Haydt Multi-Parameter Gas Quality Analysis Using Tunable Diode LaserAbsorptionSpectroscopy (TDL) Allan Rilling, Henry Lin and Edward Orr	Grand Ballroom Grand Ballroom The Technology Forum - Exhibit Hall A/B
15 - 2:45 45 - 3:30	2.7.1 2.7.2 2.7.3 Break	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wolter Last Wolter Last Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall and Sage Mosteller Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt David Haydt Multi-Parameter Gas Quality Analysis Using Tunable Diode LaserAbsorptionSpectroscopy (TDL/ Allan Rilling, Henry Lin and Edward Orr Edward Orr	Grand Ballroom Grand Ballroom The Technology Forum - Exhibit Hall A/B
15 - 2:45 45 - 3:30 30 - 4:30	2.7.1 2.7.2 2.7.3 Break	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt David Haydt David Haydt David Raydt David Baydt	Grand Ballroom Grand Ballroom The Technology Forum - Exhibit Hall A/B
15 - 2:45	2.7.1 2.7.2 2.7.3 Break	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Author(s) - Author(s) - Author(s) -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wolter Last Wolter Last Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall and Sage Mosteller Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt David Haydt Multi-Parameter Gas Quality Analysis Using Tunable Diode LaserAbsorptionSpectroscopy (TDL/ Allan Rilling, Henry Lin and Edward Orr Edward Orr	Grand Ballroom Grand Ballroom The Technology Forum - Exhibit Hall A/B
15 - 2:45 15 - 3:30 30 - 4:30	2.7.1 2.7.2 2.7.3 Break 2.8.1 2.8.2	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wolter Last Wolter Last Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall and Sage Mosteller Amanda Tyndall Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt David Haydt Multi-Parameter Gas Quality Analysis Using Tunable Diode LaserAbsorptionSpectroscopy (TDL/ Allan Rilling, Henry Lin and Edward Orr Edward Orr Measurement of Natural Gas Contaminants using Off Axis integrated cavity output spectroscopy Laser Based Technology	Grand Ballroom Grand Ballroom The Technology Forum - Exhibit Hall A/B Grand Ballroom
15 - 2:45 45 - 3:30	2.7.1 2.7.2 2.7.3 Break 2.8.1	Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title - Author(s) - Presenter - Title -	Announcements - Information Session 7 Session Moderator - Bobby Singh Corentin Thierry and Josef Kraus Corentin Thierry A solution for trace level moisture measurement in challenging gaseous and liquid chemicals Wilfred Brink Coming to a consensus - How to identify bad actors in the Oil and Gas Industry Amanda Tyndall and Sage Mosteller Amanda Tyndall Pain Points of Process Organics Monitoring and How to Overcome Them Vendor Exhibit Tables Session 8 Session Moderator - Jie Zhu David D. Haydt David Haydt David Haydt David Raydt David Baydt	Grand Ballroom Grand Ballroom The Technology Forum - Exhibit Hall A/B

0 - 8:00	Attendee		Attendee Breakfast	Ballroom Reception Area
0 - 5:00	Registration		Symposium Registration	Convention Center Lobby
00 - 5:00	Spouses Program		Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 7:30 AM - 10 PM)	Check in at Registration
ate/Time	Session		Paper Title - Author - Presenter	Location
00 - 8:30	1		Welcome Introduction - Conference Co-Chair	Grand Ballroom
30 - 9:30			Session 9 Session Moderator - Kraig Kmiotek	
	/ 	Author(s) -	Lukas Bimmerle	1
	3.9.1	Presenter -	Lukas Bimmerle	1 _
		Title -	Data-driven optimization of overall analyzer effectiveness	Grand Roy
		Author(s) -	Brian Rohrback	Grand Ballroom
/	3.9.2	Presenter -	Brian Rohrback	1
		Title -	Streamlining the Use of AI/Machine Learning in the Chemical Industry: Chemometrics	
30 - 10:15	Break		Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
:15 - 11:45			Session 10 Session Moderator - Paul Barnard	
		Author(s) -	Matthew Long and Michael Ku	
/	3.10.1	Presenter -	Matthew Long	
/		Title -	Challenges and Design Solutions for Sample Probes in Sulfur Recovery Units	
		Author(s) -	Phil Harris and Kevin Harris	Grand Ballroom
/	3.10.2	Presenter -	Phil Harris	" Ballroom
		Title -	Whats the Scoop? Advances in Process Sampling	
		Author(s) -	Henry Lin and Ed Orr	
/	3.10.3	Presenter -	Edward Orr	
		Title -	Low level gas analysis in process and area monitoring	
:45 - 1:15	Lunch		Vendor Exhibit Tables	The Technology Forum - Exhibit Hall A/B
15 - 2:15	Moderator - V	Wes Carter	Roundtable Discussion of current regulatory affairs that impact the Process Analyzer World	Grand Ballroom
			Troy Boley	
	3.11.1		James Dorsey	
			Marko Puzic	
15 - 2:45			Best Paper Award - Session Moderator Paul Barnard]
	1 1		Closing Remarks- Wes Carter, dale Merriman and Stuart Simmonds	I

30 - 4:30	Registration	Vendor Training Registration	Convention Center Lobby
00 - 12:00	Spouses Program	Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 8:00 AM - noon)	Check in at Registration
:00 - 1:00	Lunch		Oneck in at Registration
	<u> </u>		
:00 - 4:00pm	Track 4	Siemens Training (8 hour)	
	Session 1	Maxum edition II (Gas Chromatograph)	
		This session will cover a number of maintenance topics for the Maxum GC. After a quick update on new features for the Maxum GC, a discussion will occur on network	
		communications and troubleshooting. The Maxum GC 6.0 software maintenance tool then	Galleon I
		will be reviewed with student participation. Time permitting before lunch, an introduction to	
		the Analyzer System Manager (ASM) will be done. Following lunch, a short workshop will be done for customers that bring AMD files from their analyzers looking for advise on how to	
		correct and optimize them.	
0 - 4:00pm	Track 4	ABB Training (8 hours)	
u - 4:00pm	Session 2	PGC5000 (Gas Chromatograph)	
	00331011 2		Galleon II
		Although not a substitute for a full, factory certified, training course, the PGC5000 - Basics of Operation class intends to get those that are, or may be technically involved with the	Galleon II
		ABB Process Gas Chromatograph familiar with the hardware, configuration and operation,	
		including local touch screen and remote interface options	
0 4:00===	Track 4	Ametek Training (8 hour training)	
00 - 4:00pm	Session 3	WDG Series of (Zirconia) Combustion Analyzers	1
		This oxygen analyzer training provides technicians with the knowledge and	Yacht Room
		skills needed to get the most out of their WDG analyzers. It covers topics such	racii Room
		as theory, how it works, maintenance, and troubleshooting tips and can be	
		completed in just four hours	
0 - 4:00pm	Track 4	COSA Calorimeters (4 hours in PM)	1
ч.оор	Session 4	Online calorimeters report calorific value, Wobbe Index, specific density, CARI, and heating	1
		value, for fuel and flare gas applications, ranging from feed-forward process control to	
		environmental compliance. Calorimeters come in many types. This comprehensive, hands- on training will focus on two innovative designs for flameless industrial calorimeters from	Schooner Room
		Process Insights, the 9610 CXc continuous-sample calorimeter and the new 9800 CXi	
		injection-style calorimeter. We'll review what applications are best suited to each type, along the procedures necessary for operation and maintenance.	
		are procedures necessary for operation and maintenance.	
0 - 4:00pm	Track 4	Yokogawa Training	
	Session 5	(TDL 8000)	1
		This Yokogawa TDLS 8000 series analyzer training session will provide the student with the	Galleon III
		knowledge to trouble shoot and maintain the analyzer while also covering topics such as	
		installation and application considerations. This class is well suited for analyzer technicians, analyzer project managers, and analyzer engineers.	
		analyzer project managers, and analyzer engineeres	
0 - 4:00pm	Track 2	A+ Sample Handling for Process Analyzers	
		The session will begin with questions and answers to ensure the topic of greatest interest	
		for every individual attendee will be addressed by the instructors. Questions are also	
		encouraged throughout the session. Initial Q&A will be followed by an overview of guidelines and considerations for the design and troubleshooting of processor analyzer	
		sample handling systems. Sample extraction for composite sampling and manual	Clipper Room
		collection, are also potential topics. Next, best practices for selecting the most appropriate compliment of sample extraction and preconditioning equipment will be covered. Some of	
		the most commonly used sample handling components will be available for detailed	
	Session 6	examination and for hands-on training in their application, installation, operation, maintenance, and troubleshooting.	
	06331011 0	mantenance, and troubleshooting.	
		Extrel Mass Spectrometer and ATOM Total Sulphur Analyzer (8	
0 - 4:00pm	Track 2	hour with Extrel in the AM and ATOM in the PM)	
		This is a hands-on training covering two complimentary analyzer technologies from Process	1
		Insights. Continuous, online analysis for Total Sulfur (TS) is essential in many fuel and flare	Saha
		gas applications. An Excimer UV Total Sulfur analyzer oxidizes all sulfur compounds and measures TS directly, while a mass spectrometer measures all components in the stream	Schooner Room
		and calculates TS from the result. Both approaches are approved by the EPA and offer fast,	
		accurate results. This session is for both process control and environmental compliance users, and offers live, hands-on training with two analyzers from Process insights, the FGA-	
	Session 7	users, and offers live, hands-on training with two analyzers from Process insights, the FGA-1000 Total Sulfur Analyzer and the Extrel MAX300-RTG 2.0.	
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0 - 4:00pm	Track 2	Neo Monitors LGIII O2/CO/CH4 T-Flange	
		We will be going over TDLAS IROSS and Ultra software. With our LG3 T-Flange demo, we	Harbor Room
	i	we will be going over TDLAS IROSS and Old a software. With our LGS 1-Flange defile, we will show installation and alignment, then go through commissioning of the LG3, and finish	
		off with other installation options	